

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
19 July 2001 (19.07.2001)

PCT

(10) International Publication Number  
**WO 01/51659 A2**

(51) International Patent Classification<sup>7</sup>:

C12Q 1/68

(74) Common Representative: GENSET; Intellectual Property Dept., 24, rue Royale, F-75008 Paris (FR).

(21) International Application Number:

PCT/IB01/00116

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(22) International Filing Date: 11 January 2001 (11.01.2001)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/175,854 13 January 2000 (13.01.2000) US

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): GENSET [FR/FR]; Intellectual Property Dept., 24, rue Royale, F-75008 Paris (FR).

Published:

without international search report and to be republished upon receipt of that report

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHU, Tom [US/US]; 5394 Camino Playa Norte, San Diego, CA 92124 (US).

BLUMENFELD, Marta [FR/FR]; 5, rue Tagore, F-75013 Paris (FR). COHEN, Daniel [FR/FR]; 1, boulevard Richard Wallace, F-92200 Neuilly-sur-Seine (FR).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



**WO 01/51659 A2**

(54) Title: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING GENES INVOLVED IN CENTRAL NERVOUS SYSTEM DISORDERS

(57) Abstract: The invention provides polynucleotides including biallelic markers derived from genes involved in CNS disorders and from genomic regions flanking those genes. Primers hybridizing to regions flanking these biallelic markers are also provided. This invention also provides polynucleotides and methods suitable for genotyping a nucleic acid containing sample for one or more biallelic markers of the invention. Further, the invention provides methods to detect a statistical correlation between a biallelic marker allele and a phenotype and/or between a biallelic marker haplotype and a phenotype.

**BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING GENES  
INVOLVED IN CENTRAL NERVOUS SYSTEM DISORDERS**

FIELD OF THE INVENTION

5       The present invention is in the field of pharmacogenomics, and is primarily directed to biallelic markers that are located in or in the vicinity of genes that play a role in disorders of the brain and nervous system and to the uses of these markers. The present invention encompasses methods of establishing associations between these markers and central nervous system (CNS) disorders such as psychiatric disorders and neurodegenerative diseases as well as associations  
10      between these markers and treatment response to a variety of therapeutic agents. The present invention also provides means to determine the genetic predisposition of individuals to such diseases and means to predict responses to such drugs.

BACKGROUND OF THE INVENTION

15      Advances in the technological armamentarium available to basic and clinical investigators have enabled increasingly sophisticated studies of brain and nervous system function in health and disease. Numerous hypotheses both neurobiological and pharmacological have been advanced with respect to the neurochemical and genetic mechanisms involved in central nervous system (CNS) disorders, including psychiatric disorders and neurodegenerative  
20      diseases. However, CNS disorders have complex and poorly understood etiologies, as well as symptoms that are overlapping, poorly characterized, and difficult to measure. As a result future treatment regimes and drug development efforts will be required to be more sophisticated and focused on multigenic causes, and will need new assays to segment disease populations, and provide more accurate diagnostic and prognostic information on patients suffering from CNS  
25      disorders.

**A. Neurological Basis of CNS Disorders**

30      Neurotransmitters serve as signal transmitters throughout the body; therefore, diseases that affect neurotransmission can have serious consequences. For example, for over 30 years the leading theory to explain the biological basis of many psychiatric disorders such as depression has been the monoamine hypothesis. This hypothesis proposes that depression is partially due to a deficiency in one of the three major biogenic monoamines, namely dopamine, norepinephrine and serotonin. However, this hypothesis has been replaced by one that takes into account the overall function of the brain and no longer only considers a single neuronal system.

**Dopamine**

35      Dopamine is synthesized via the hydroxylation of tyrosine to dihydroxyphenylalanine (DOPA), involving the enzyme tyrosine hydroxylase (TH) and catechol O-methyl transferase (see Table 2: TH and COMT). Tyrosine hydroxylase is the rate-limiting enzyme in the synthesis

of catecholamines such as dopamine and norepinephrine. Dopamine and the enzymes involved in its biosynthesis and degradation are known to be involved in the pathophysiology of a depression, schizophrenia and Parkinson's disease. For example, it is believed tyrosine hydroxylase may be involved in the pathophysiology of psychiatric disorders and positive associations have been reported for tyrosine hydroxylase gene markers in mood disorders. However, a recent study was unable to conclude tyrosine hydroxylase variants are related with depressive symptomatology in subjects affected by mood disorder (Serretti A. et al.; *American Journal of Medical Genetics* 81(2):127-130, 1998).

Dopamine, released from the nerve terminals, is largely recaptured by a re-uptake mechanism involving dopamine transporter (DAT) (see Table 2: DAT). Following re-uptake, dopamine is metabolized by monoamine oxidases A and B (MAOA/B) (see Table 2: MAOA and MAOB). Monoamine oxidase A and B are critical enzymes in deamination of biogenic amines and may be involved in the pathophysiology of major psychoses, including mood disorder, Parkinson's disease and schizophrenia. Recently, evidence for genetic association between the MAOA gene and bipolar mood disorder was demonstrated in a Caucasian population, but not seen in a Japanese population (Sasaki T. et al.; *Biological Psychiatry* 44(9):922-924; 1998).

Receptors for dopamine regulate dopaminergic neurotransmission. A plethora of dopamine receptors exist, including the presynaptic dopamine transporter and at least five pharmacologic subtypes ( $D_1$  -which is linked to the enzyme adenyl cyclase,  $D_2$  -not linked to adenyl cyclase,  $D_3$ ,  $D_4$ , and  $D_5$ ). Classically, the most extensively investigated dopamine receptor is the  $D_2$  receptor, as it is stimulated by dopaminergic agonists for the treatment of Parkinson's disease and blocked by dopamine antagonist neuroleptics for the treatment of schizophrenia (see Table 2: DRD2). Recently, other dopamine receptors, particularly the  $D_4$  receptor, have become targets for new antipsychotics in the treatment of Parkinson's disease (see Table 2: DRD4). It appears the interaction of all or some of the dopamine receptors play a role in many CNS disorders. However, only a limited number of studies investigating the association of such disorders with genes of the dopaminergic pathway have been completed and often with conflicting results.

#### Norepinephrine

The noradrenergic system is known to play a large role in the determination of mood, dysfunction contributes to the "functional" disorders of depression, mania and anxiety. It is believed depressed patients are unable to produce sufficient norepinephrine in some parts of the brain for neuronal transmission, while mania may result from excessive activity or sensitivity of this system.

The amino acid tyrosine, having been actively taken up by adrenergic neurons, is converted to DOPA by means of tyrosine hydroxylase. DOPA is then converted to dopamine and later into norepinephrine in the synaptic vesicles. Conversion of norepinephrine to

mediated by more than one neurotransmitter; for example, the serotonergic system may co-exist with other neurotransmitter in the same synapses.

#### Gamma aminobutyric acid (GABA)

5       Gamma aminobutyric acid (GABA) is an important amino acid which functions as the most prevalent inhibitory neurotransmitter in the central nervous system. Gamma aminobutyric acid works in partnership with a derivative of Vitamin B-6, pyridoxine, to cross from the axons to the dendrites through the synaptic cleft, in response to an electrical signal in the neuron and inhibits message transmission. This helps control the nerve cells from firing too fast, which would overload the system.

10      The gamma aminobutyric acid (a) receptor (see Table 2: GABRA5 and GABRG2) appears to play a key role in modulating anxiety and could be involved in either the etiology or the pathogenesis of anxiety disorders (Crowe et al. *Am J Psychiatry* 154:8). A benzodiazepine binding site is located on this receptor, and ligands that bind to this site can either increase or decrease anxiety.

#### Growth associated protein (GAP43)

15      Growth associated protein (GAP43) is localized exclusively to nerve tissue and is known to play a role in synaptic transmission and membrane permeability. The expression of GAP43 is associated with mammalian peripheral nerve regeneration (Kosik et al. *Neuron* 1:127-132, 1988). A polymorphism in the 3'-untranslated region of GAP43 is found at slightly lower frequencies in Alzheimers and Parkinson's patients (Poduslo. *Hum Genet.* 92:635-636, 1993).

#### Subreceptor Activity

20      The activity of subreceptors has also been investigated in recent years for its role in a wide range of CNS disorders. When neurotransmitters bind to receptors on the membranes of postsynaptic neurons, they elicit a target response in the cell via a second or third messenger.

25      Several different messenger chemicals are known including cyclic adenosine monophosphate (AMP). G proteins serve as signal transduction subunits in the cyclic AMP pathway (see Table 2: Gbeta3). G protein coupled receptors are thought to have seven membrane spanning domains and have been divided into 2 subclasses: those in which the binding site is in the extracellular domain for example receptors for glycoprotein hormones, such as thyroid stimulating hormone (TSH) and follicle stimulating hormone (FSH) and those in which the ligand binding site is likely to be in the plane of the 7 transmembrane domains for example rhodopsin and receptors for small neurotransmitters and hormones for example muscarinic acetylcholine receptor. However, orphan G-protein coupled receptor (see Table 2: HM77) does not contain N-linked glycosylation sites near the N-terminus like other members of this protein family.

30      There is evidence that various monoamine or monoaminergic receptors are able to alter cyclic AMP levels through the same G protein. Therefore, G proteins serve as an important cross-talk mechanism between transmitter systems in the CNS. An abnormality in a G protein or

The anxiolytic effects of corticotrophin-releasing factor appear to be mediated by the activation of the central noradrenergic system. A CRF-positive projection has been identified linking limbic structures to the noradrenergic locus ceruleus, stimulation of which plays an important role in emotional memory and increases tyrosine hydroxylase activity. Therefore, 5 primary or secondary dysfunction of corticotrophin-releasing factor would be expected to initiate a cascade of maladaptations.

Glucocorticoids and mineralocorticoids are both classes of steroid hormones that play an important role in the HPA axis; and have therefore been implicated in the pathophysiology of various psychiatric disorders and neurodegenerative diseases (see Table 2: GRL and MLR). 10 Glucocorticoids exert numerous effects on metabolism, reproduction, inflammation and immunity. In addition, glucocorticoids serve as the primary negative feedback mechanism that regulates the HPA axis. Mineralocorticoids maintain electrolyte balance by regulating salt and water retention in the kidneys.

Brain-derived neurotrophic factor (see Table 2: BDNF) is a member of a group of 15 proteins that includes neurotrophin-3/4/5 and nerve growth factor (NGF) and are believed to play a role in the etiology of a number of CNS-related disorders including schizophrenia and Parkinson's disease (Hawi et al. *Psychiatry Research* 81: 111-116, 1998 and Gassner et al. *Annals of Neurology* 36(3):387-396, 1994). BDNF plays an important role in promoting growth and maintenance during normal development and differentiation of the vertebrate system (Hanson et al. *Genomics* 13: 1331-1333, 1992). Further, it is believed BDNF has an effect on the 20 differentiation of dopaminergic and serotonergic neurons (Studer et al. *Euro. J. of Neuroscience* 7: 223-233, 1995).

### C. Examples of CNS Disorders

Neurotransmitter and hormonal abnormalities are implicated in disorders of movement 25 (e.g. Parkinson's disease, Huntington's disease, motor neuron disease, etc.), disorders of mood (e.g. unipolar depression, bipolar disorder, anxiety, etc.) and diseases involving the intellect (e.g. Alzheimer's disease, Lewy body dementia, schizophrenia, etc.). In addition, Neurotransmitter and hormonal abnormalities have been implicated in a wide range of disorders, such as coma, head injury, cerebral infarction, epilepsy, alcoholism and the mental retardation states of metabolic 30 origin seen particularly in childhood.

#### Schizophrenia

In developed countries schizophrenia occurs in approximately one per cent of the adult population at some point during their lives. There are an estimated 45 million people with schizophrenia in the world, with more than 33 million of them in the developing countries.

35 Moreover, schizophrenia accounts for a fourth of all mental health costs and takes up one in three psychiatric hospital beds. Most schizophrenia patients are never able to work. The cost of schizophrenia to society is enormous. In the United States, for example, the direct cost of

forms and display different symptoms, the classification of bipolar disorder has been the subject of extensive studies resulting in the definition of bipolar disorder subtypes and widening of the overall concept to include patients previously thought to be suffering from different disorders. Bipolar disorders often share certain clinical signs, symptoms, treatments and neurobiological features with psychotic illnesses in general and therefore present a challenge to the psychiatrist to make an accurate diagnosis. Furthermore, because the course of bipolar disorders and various mood and psychotic disorders can differ greatly, it is critical to characterize the illness as early as possible in order to offer means to manage the illness over a long term.

Diagnosis of bipolar disorder can be very challenging. One particularly troublesome difficulty is that some patients exhibit mixed states, simultaneously manic and dysphoric or depressive, but do not fall into the DSM-IV classification because not all required criteria for mania and major depression are met daily for at least one week. Other difficulties include classification of patients in the DSM-IV groups based on duration of phase since patients often cycle between excited and depressive episodes at different rates. In particular, it is reported that the use of antidepressants may alter the course of the disease for the worse by causing "rapid-cycling". Also making diagnosis more difficult is the fact that bipolar patients, particularly at what is known as Stage III mania, share symptoms of disorganized thinking and behavior with bipolar disorder patients. Furthermore, psychiatrists must distinguish between agitated depression and mixed mania; it is common that patients with major depression exhibit agitation, resulting in bipolar-like features.

For both schizophrenia and bipolar disorder, all the known molecules used for treatment have side effects and act only against the symptoms of the disease. There is a strong need for new molecules without associated side effects or reduced side effects which are directed against targets that are involved in the causal mechanisms of schizophrenia and bipolar disorder.

Therefore, tools facilitating the discovery and characterization of these targets are necessary and useful.

The aggregation of schizophrenia and bipolar disorder in families, the evidence from twin and adoption studies, and the lack of variation in incidence worldwide, indicate that schizophrenia and bipolar disorder are primarily genetic conditions, although environmental risk factors are also involved at some level as necessary, sufficient, or interactive causes. For example, schizophrenia occurs in 1% of the general population. However, if a subject has one grandparent with schizophrenia, the risk of getting the illness increases to about 3%, while one parent with Schizophrenia increases risk to about 10%. When both parents have schizophrenia, the risk rises to approximately 40%. Consequently, there is a strong need to identify genes involved in schizophrenia and bipolar disorder. The knowledge of these genes will allow researchers to understand the etiology of schizophrenia and bipolar disorder and could lead to

may be selected from the following biallelic markers: 99-28788-300, 99-32061-304, 99-32121-242, 19-14-241, 19-28-136, 16-50-196, 19-58-162, 19-9-45, 20-205-302, 24-243-346, 99-27207-117, 99-28110-75, 99-28134-215, 99-32181-192, 19-17-188 and 19-19-174; Optionally, the identity of the nucleotides at the biallelic markers in everyone of the sequences of SEQ ID NO: 5 1-542 is determined in steps a) and b).

A ninth embodiment of the present invention encompasses methods of detecting an association between a haplotype and a phenotype, comprising the steps of: a) estimating the frequency of at least one haplotype in a trait positive population according to a method of estimating the frequency of a haplotype of the invention; b) estimating the frequency of said 10 haplotype in a control population according to the method of estimating the frequency of a haplotype of the invention; and c) determining whether a statistically significant association exists between said haplotype and said phenotype. In addition, the methods of detecting an association between a haplotype and a phenotype of the invention encompass methods with any further limitation described in this disclosure, or those following, specified alone or in any combination: Optionally, said CNS disorder-related biallelic marker may be in a sequence selected individually or in any combination from the group consisting of SEQ ID NO: 1-542, and the complements thereof; Optionally, said CNS disorder-related biallelic markers may be selected individually or in any combination from the biallelic markers described in Table 7; 15 Optionally, said CNS disorder-related biallelic marker may be selected from the following biallelic markers: 99-27207-117, 99-28110-75, 99-28134-215, 99-32181-192, 99-28106-185, 99-30858-354, 18-20-174, 99-32002-313, 18-31-178, 18-38-395, 99-30853-364, 19-56-140, 19-28-136, 99-28788-300, 99-32061-304, 99-32121-242, 19-14-241, 16-50-196, 8-19-372, 12-254-180, 20-214-279, 10-217-91, 18-194-130, 18-186-391, 18-198-252, 18-242-300, 20-205-302, 19-58-162, 19-9-45, 19-22-74, 19-88-185, 19-18-310, 19-19-174, 19-17-188, 19-16-127, 99-32148-315, 25 19-46-322, 99-32131-312, 99-32065-303, 19-44-251, 19-29-303, 18-355-67, 18-353-267, 18-338-305, 16-88-185, 24-243-346, 99-62531-351, 99-54279-152, 99-28171-458, 99-28173-395, 18-186-394, 8-15-126, 99-2409-298, 99-28722-90 and 99-32306-409; Optionally, said CNS disorder-related biallelic marker may be selected from the following biallelic markers: 99-28788-300, 99-32061-304, 99-32121-242, 19-14-241, 19-28-136, 16-50-196, 19-58-162, 19-9-45, 20-30 205-302, 24-243-346, 99-27207-117, 99-28110-75, 99-28134-215, 99-32181-192, 19-17-188 and 19-19-174; Optionally, said control population may be a trait negative population, or a random population; Optionally, said phenotype is a CNS disorder, a response to an agent acting on a CNS disorder, or side effect to an agent acting on a CNS disorder; Optionally, the identity of the nucleotides at the biallelic markers in everyone of the following sequences: SEQ ID NO: 1-542 is included in the estimating steps a) and b). 35

A tenth embodiment of the present invention encompasses polypeptides encoded by SEQ ID NO: 543 or 544, as well as antisense analogs thereof and biologically active and

ctccctcttc acacactccc ttccctcttc cccccctttt tttttttttt ttatccctc 122760  
ttcccttttc cccctccccc catttttat cttccctttc cttccctttt cccctccccc 122820  
ttccctccccc cccccccctc cttccctttt ccctccctt tttccctttt ccctccctt 122880  
tttccctccccc ccctccctt ctccctttt tttccctttt tttccctttt tttccctttt 122940  
ctccctttt tttttccctt tcccttttcc cttccctttt tttccctttt tttccctttt 123000  
ctcccttttcc ccccttttcc cttccctttt ccctccctt tttccctttt 123060  
tcccttttcc ctgcgtttcc tttccctttt tttccctttt ccctccctt tttccctttt 123120  
ccctcccccc tactccacta tcccccctt tttccctttt ccctccctt tttccctttt 123180  
tcccttttcc tcccggttttcc tttccctttt ccctccctt tttccctttt 123219

<210> 544  
<211> 160755  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 19206..21206  
<223> 5' regulatory region

<220>  
<221> exon  
<222> 21207..21387  
<223> exon 1A

<220>  
<221> exon  
<222> 21864..22188  
<223> exon 1

<220>  
<221> exon  
<222> 34799..34930  
<223> exon 2

<220>  
<221> exon  
<222> 37172..37409  
<223> exon 3

<220>  
<221> exon  
<222> 50385..50523  
<223> exon 4

<220>  
<221> exon  
<222> 57261..57395  
<223> exon 5

<220>  
<221> exon  
<222> 59355..59458  
<223> exon 6

<220>  
<221> exon  
<222> 60623..60747  
<223> exon 7

<220>  
<221> exon  
<222> 61570..61682

<223> exon 8

<220>

<221> exon

<222> 63244..63372

<223> exon 9

<220>

<221> exon

<222> 63817..63916

<223> exon 10

<220>

<221> exon

<222> 64902..65002

<223> exon 11

<220>

<221> exon

<222> 65487..65654

<223> exon 12

---

<220>

<221> exon

<222> 67211..67282

<223> exon 13

<220>

<221> exon

<222> 67671..67928

<223> exon 14

<220>

<221> misc\_feature

<222> 67929..160755

<223> 3'regulatory region

<220>

<221> allele

<222> 31547

<223> 99-32148-315 : polymorphic base G or C

<220>

<221> allele

<222> 50558

<223> 19-51-347 : polymorphic base A or G

---

<220>

<221> allele

<222> 63270

<223> 19-56-140 : polymorphic base A or G

<220>

<221> allele

<222> 65025

<223> 19-44-251 : polymorphic base C or T

<220>

<221> allele

<222> 67348

<223> 19-46-322 : polymorphic base C or T

---

<220>

<221> allele  
<222> 67963  
<223> 19-47-315 : polymorphic base C or T

<220>  
<221> primer\_bind  
<222> 31412..31432  
<223> 99-32148.rp

<220>  
<221> primer\_bind  
<222> 31844..31862  
<223> 99-32148.pu complement

<220>  
<221> primer\_bind  
<222> 50215..50233  
<223> 19-51.pu

<220>  
<221> primer\_bind  
<222> 50613..50631  
<223> 19-51.rp complement

<220>  
<221> primer\_bind  
<222> 63131..63150  
<223> 19-56.pu

<220>  
<221> primer\_bind  
<222> 63543..63561  
<223> 19-56.rp complement

<220>  
<221> primer\_bind  
<222> 64775..64793  
<223> 19-44.pu

<220>  
<221> primer\_bind  
<222> 65176..65194  
<223> 19-44.rp complement

<220>  
<221> primer\_bind  
<222> 67027..67045  
<223> 19-46.pu

<220>  
<221> primer\_bind  
<222> 67435..67452  
<223> 19-46.rp complement

<220>  
<221> primer\_bind  
<222> 67649..67667  
<223> 19-47.pu

<220>  
<221> primer\_bind  
<222> 68051..68070  
<223> 19-47.rp complement

```
<220>
<221> primer_bind
<222> 31528..31546
<223> 99-32148-315.mis

<220>
<221> primer_bind
<222> 31548..31566
<223> 99-32148-315.mis complement

<220>
<221> primer_bind
<222> 50539..50557
<223> 19-51-347.mis

<220>
<221> primer_bind
<222> 50559..50577
<223> 19-51-347.mis complement

----->

<220>
<221> primer_bind
<222> 63251..63269
<223> 19-56-140.mis

<220>
<221> primer_bind
<222> 63271..63289
<223> 19-56-140.mis complement

<220>
<221> primer_bind
<222> 65006..65024
<223> 19-44-251.mis

<220>
<221> primer_bind
<222> 65026..65044
<223> 19-44-251.mis complement

<220>
<221> primer_bind
<222> 67329..67347
<223> 19-46-322.mis

<220>
<221> primer_bind
<222> 67349..67367
<223> 19-46-322.mis complement

----->

<220>
<221> primer_bind
<222> 67944..67962
<223> 19-47-315.mis

<220>
<221> primer_bind
<222> 67964..67982
<223> 19-47-315.mis complement

<220>
<221> misc_binding
```

```

<222> 31535..31559
<223> 99-32148-315.probe

<220>
<221> misc_binding
<222> 50546..50570
<223> 19-51-347.probe

<220>
<221> misc_binding
<222> 63258..63282
<223> 19-56-140.probe

<220>
<221> misc_binding
<222> 65013..65037
<223> 19-44-251.probe

<220>
<221> misc_binding
<222> 67336..67360
<223> 19-46-322.probe

<220>
<221> misc_binding
<222> 67951..67975
<223> 19-47-315.probe

<220>
<221> misc_feature
<222> 11925,11927,11929..11930,11933,11947,11975,11989,12068,12278
      12350,12475..12574,12622
<223> n=a, g, c or t

<400> 544
gaattcttc ttctgaggag gcaagaattt aggttgctgc aggcccgta agattcactg   60
ctgctaacat aatcaaacat gcctgaccct tgcctcccg tcatggcccg aactagttt  120
tcagatttac ttggaaatct ctttggccaa gaggcagggg ggctccatt agtagttgg  180
taggcttaga attttatttt tggttacac tccaaacacc aggtttgcct gatgttgta  240
cagtgtatca caatgtccct tcctgagtgg tgcactctg gagttcatc ctgcttcgtc  300
caggacacca taaaatgtgaa cacacattga gactctacag tcctttaagg gttagcaattt 360
caattatttt atcagattat ataatcttct gttcacgtg ttagatctg agatcacact 420
gcctgcaggg gctctgctt ttctctttc ctgtggaaaa gatgctaaag catggaaaga 480
tgcaaacaca taaaaacaac aaaaaaaagta tgctaaaggaa gcccaggaa gtgaagggtcc 540
acaccacaac accacgact cagagaaagg gacatcaaag ctgatcctgc aggatggata 600
ttcctttatc agacaatggg gtggcagtg gggtaggtt gtggaggtgg ggaagggtgc 660
cctaggtgga gagaatggca tgtgcaaaga cgagtagggc agggAACAGC aggcaacact 720
cccacaggtt ggagttcagg tggatggcca gcaatggctt aggaggttg tggaaatgga 780
gaatcctggg tggatgtata gaggcaaagt gatagtccct tcccacacag tgatagccct 840
ttccaccatc atcagggtcag tgcgttgttca aagagatggaa agtgtccagg gcagggatta 900
caaactctca aacatcacag aggctggtca gaaacataac gcaggttagga agtaaggagc 960
ctgaggccca ccagaagagc ttgtccctc tccaaaactc aagagtggcc agacagccgg 1020
gcacagtgtac tcacgcctgt aatctcagca ctttggggagg tggaggtgg cagatcttt 1080
gaggtcagga gttcgagacc agcctgtatca acatgacaaa atcttgcgt tactaaaatt 1140
acaaaattag ccaggtgtgg tagcacaccc ctgtaatccc aactactttt gaggccgagg 1200
caggagagtc acttgaactg ggggggcaga gttgcagta agccaagatt gcactattgc 1260
actccagccct gggagaccc tcaaaacaca cacacacaca cacacacaca cacacacaca 1320
cacacacaca cacacacaca tacacacaca agtggtcaga cagagctcct gatgtttat 1380
gagaagccag aattgcaggg gtttatgtt aaatttctg gattgcaaaag cactgggtgt 1440
accaaataaa caccactggg ggctgttagct ggccccacaag gcactggctg gtggtgactc 1500
ctgctaataa aggttaactcc ttccatgatc cgccttgaac attggctct gcaatgccac 1560
agctgcctta gtgacccttg gcaggcacct tcttgagtga ttccaaatag ttatgacctg 1620
tccttggtga gagaggaggg gcaggtctct tgaggtagt gaagcagtagc aaatgtttgc 1680

```

atttctcagg gatgcaatcg atgtaaaccca gataaatgaa accacagaaaa gtcagtagct 1740  
 gaggcagggta gaaatgtgt ccccgccccc tcttaagcaa ttagcttgc tgccctggc 1800  
 agctgctgaa ttccaaaggc aattccaggg gctttgattt gaagccagtc tcttaagacc 1860  
 cacttaaagg cagggggtagc ccagagaaga gcaaaccagg ggtgggttgt ggtgatgggg 1920  
 gtggggagag ggagtgggtg ttccctgtct caatgtctgc agagttgtt tgtttaaagg 1980  
 tgagtagcca cttctttgtt gtagatctag gagctaaacc cagggccagc tggttggaa 2040  
 tacagggagg cagatcttgc cctaaagaac tccctaaca tgagagatgt ctgaaggtgg 2100  
 aatcagttgc gtttggaaatg agcaaacaact tcgtcatggg aggcccttcaa gcacatggga 2160  
 aatggccact cttagggcata caatggtaaa gagaagtgtt gtttggata aactctgaag 2220  
 tccttttat cctagagatt ttgtgattta tcttattagc aatatttcat ggtgttcaac 2280  
 tgaccggttt atttgggtc ttgactttt attttaagaa aatgtgcaga aacttcagaa 2340  
 ctctctttct actccggaaa tgagactctc tgcacgtaaa atataacaag tggcaggtaa 2400  
 tccagaacca tgataacttta gaggcacagg taataggag tgactggcag tggccttcata 2460  
 tgtgtctgcc tgggaagagt taaagtatta tataagccag acttctgaaa aacgggaagg 2520  
 ggaatggaca gatgggatac gggagactgg aattaataag aagtcaaata gctgagtcata 2580  
 tgaactaatt tcaaagtctg aaggttaacag gaaaacagaa aatcagacaa ttggaaagta 2640  
 atgaaggttt tgtaaagacc ccaggtggcc aaaacaacag gagaagtcaag gaaaacgtaa 2700  
 ttacaacact gatgtgagcc ctctgagcca gaccatccctg tctctggccc tccccctctca 2760  
 cccgagtcct gcctggtagc tagcagctcc coactgcagg acacagttag aggggtgggg 2820  
 ggctcaccat tcactcaaag cactctcgaa taatgcggcc agttagatgt tctgttgc 2880  
caccatggcc agtcactccc tcttggtaag aatctgtctc cccgtgacaa agaaagtcaag 2940  
 aacagatgtg aatgtcttaga attgtttcac ccattacaca gaggggaaaaaa ctgtggcccg 3000  
 aagagtggat cgtgtgtaaa gtgcaatggg gaggattgag gtatatgaga ctcaattcat 3060  
 ttctacttcc tgaattaaca gaaaaggccc atactggca agttagagct tttagttgtg 3120  
 cttctgcttt aaaaagcatc atctctgggg atgaatgttag acagtctctc aaactcaata 3180  
 actggctttt gaggAACAGA gatttctcat gttccacatt ctaaaaagcc acctttttgt 3240  
 tgacagggtg aggtttgagg acgtacttaa gaaccatcaa aatctgtget ctctctgtt 3300  
 cacagactga tgaagagagc cagcggccct tgaagctgct cgtgtttgtc tgattttaa 3360  
 aggccagagaa aggcccaaag atggtttccc agcaggatgg gacaagtcaag caagtttct 3420  
 gagccaggc aatcgatct ctaacgaact agagagagaa tggcattta gtctttaaat 3480  
 ttatttctttt atatttttt tttagaatcg aaaatgtccc cagatggccc ttgtgtgatg 3540  
 gacttttagaa agtcattaca aacacttttgc ttttctggcc aatctttctc ctccctgcctg 3600  
 ggagaagagc ctcaactctt ctcacactct cccctctcgg gtggctccag ggcctcctga 3660  
 ccagtcctc cttcacccct gccaccggct ctacacacgg cagtgggaca gaccctttaa 3720  
 aatacacaact tgatcacaact accgagctat gaagtcttca gtggctttcc cactgtctg 3780  
 agagtaaaag ccacccctct tacagtggcc aaaagggtggc ttaaaatcg gtcactgaca 3840  
 ctttttcatt cactctcatc tgcccttgct cacaacttgg gtggcactgc cttttttct 3900  
 cggctcaggc cgccttcctc caacccttac cagtccctttt gaaacctggc ctgcacttc 3960  
 ctaactctact cttccctggc tctctgcagg gctgagctca actcaagaga acttgaagag 4020  
 gacatttctg agcacctggc cacagatcc tcccagacaa tgggagtcata actcaccact 4080  
 ctggggactt gtcataatct atccacatct tacttatttc cttgtttatt tgtttctaga 4140  
 cttttctctt ggcttgactt taagcaggaa tctcatctgt attatttacc actatagccc 4200  
 tggctcatag aattgttctt gatacatagg gatgactcaa gaaatgttt tgagaggaa 4260  
 ggaaggaagg gagagaagga gggaaagaaag aagataggaa ggaggggagga agggaaaggag 4320  
 agaaaaaagaa agattggagg gagagaggaa atctctctct ctctctctt ctctcttttt 4380  
 ttttttttaa catattctag ttggttttt gccagagaag ggtgataactt aaaacaagag 4440  
 acttaaccat ggactttatg gcctaagaac aacaatgtt gggacaaggta aagaatagct 4500  
 ggggacttcc caagtctcac cttgcaagca gccagctgtg ttgccttaggg gtggacaga 4560  
 cagatgttag ggaaggcaaa gggagccacc agttgggca gaagggaatc agtggaggac 4620  
 ctggggaaate ttageccetta taggtttgc gacacttcc ctgtttggaa gaeteeageca 4680  
 tctgcctttc aatgaatagc atcaggacta gcattggcccc caaggaacact ggaatcaatg 4740  
 agagggttgg tggagtgtaa atgtttggc cagagaaatg gggcaccttgc gagacggagc 4800  
 tccgaagtcc tgcaaatgca atatcttcat taaaagactg gtctgttactt ggcactccgc 4860  
 acacagggtt gcaatttata gatgatggca tggggttctg gaggctggc ccagggagat 4920  
 gaggttgcatt ggacctttagg cattgcagac cacaagactc ctatggatgg aaataaaagc 4980  
 agctacagcc accagcagag aaatctcttgc ttgtttgtt gtttgtttgt tttgtttttgt 5040  
 tttgagacag agtttctatt ttgttgcata ggctgggttg caaaggcatg gtcttggctc 5100  
 actgcaaccc ctcccttcctg ggttcaagcg attctctctgt ctcagcccttcc caagtagctg 5160  
 ggattacagg caccggccac catgcctggc taattttttt gtatttttag tagagatggg 5220  
 gtttccat gttggccagg ctggctctgc actcctgacc tcagatgtatc cactcaccat 5280  
 ggtctcccaa agtgcgtggg tagagaaatc tcttctaaatc aagagatgt tgacacacagc 5340  
 actggacaat ttggccgggtt gggcatgagc tggctaaaggc attgggaagg ggctggtag 5400  
 gatggtggtc agaggcgctt ggcaaacctc agattctata acattcagac caggccatt 5460

tcctgctgat gaccaagtgg actctcagaa gccatcagga gggtgctcg	ctcatcagg	5520
gaaaagtcaat tccctgggc ttctacttat aactttgtt	gcagatagca agcctttcc	5580
gcccggcttc tcatacctgag cctttctgcc	tgtacaatac acattattta	5640
gtgaagttac cctagatcaa ttatacttat	tttctctgtg taatttccaa	5700
ctccattcgg gcccagcctg ggggacagg	tgtctagcag agtctaaac gatttcagcc	5760
tttaattcaa ttgtacttt accatagccc	agcagcgagc ataattctt	5820
atgtctcatt agcaataatc taatagcaca	tattaaaata taggtcactg	5880
ccaagtgaa ggcttgcata aacttgaag	gttggacagc tgccttgg	5940
ccccaaataac acaccaccc	gactctaggc ttaattctaa	aaaacacaac
aaaaacagct tactttctgc agttcaagg	taagaaccga cgttggctag	6000
tgtgggttag gttaaggggag	aggggaaatgt tcttgcac	6060
acctgcacca ggaacttggg ctggAAC	atcccagtt tgccgtga	6120
acctgcacca gacgtttat ggccttgc	cttgggtgtc acacctgtaa	6180
tactggctt aaagccatg tttctgaat	tctggcactc cctgatcaac	6240
atgcatttga tgtttccct taaatcaact	cattcttctt attaaacac	6300
aaaaggaagg tcaagtatca acatggaaa	acctaagaa tatttgcagg	6360
cggaaataagg ccaactgtat	aggattcatg	6420
aaactttaaa catgcacaaa	agtatgcgt aaaaatgg	6480
tagacaggca aaataaatct	agggggttca aggtccagat	6540
agggagatgt tgacagggag	gggcaaccag gggactcct	6600
aatggcctgg atgttagttc	atgagcgtt ttactatgt	6660
ttcaattttc tttgtgtttaa	gcctcataca aatataatata	6720
atatatatgt tttcatatata	tgttttatata	ataaaaat
taggtatatg taaatgtacg	tgtgtatatt	taggaatata
ataggtatc atgcagtata	tgtatatatt	tatatacata
tatattgtt attcttaata	atataatattt	atataatata
aattatgcattatg tataccatac	atthaatatg	tgcttattag
gtatgtatatt agtgaggatt	attccaaat	gtgtatctaa
atgaacacta gagagcagg	ctctatagtg	acagtgtaga
tacatgctt ggaataatcc	acattttta	agttAAC
tttactgtc atcatgtat	aaataaaaaa	ccaaaatcac
aaaataaagc aacgaaaaga	aagcactgat	aggagattct
tgaaagttct gacccaaagc	ctgggttct	tctgttgaac
tcattacaga cacatgaaca	ccagattgag	actcaactc
agcatgaaaaa	gcagtggaa	tttccctc
gcataggccct gagccattgc	ccctttct	tggggctgt
tctgcaagg	ccctccaagc	tccaaactatc
aggtcttgtt acaggtggc	tggaggatag	ggagaaaaaa
aaaattggaa aattttgaaa	caaagcccc	ttccttctc
cacaaagcct gagccagagg	caggggtggg	cagggcaca
agccttccca gacacagccg	ttccacactc	ctcctgg
tccttgaagt gctgtttgt	ggctctggc	ctgctcttgg
agcacccccc	gggtactgca	tgtcoactc
tcctaaggcc taagtctctc	caccaactgc	ctgacctgac
cagctttagc ttcatggccc	acatccacac	gtgggcagt
ttacaagaga actgcgtgt	ctggagggt	cagtgaggat
gcagggtggc	ctcatgatga	ccttgg
ctggatctc ccctcaactgc	tgccccaa	tggacccca
caaaacttat ctctcgatc	cctccttcc	tcagagtat
tctgctctga gaaaatgttcc	aaagagagga	cgttaggtgt
gtggaggecg gttctgtatc	tttgccttgc	taetaeetg
tgaggcagg	aggtacaaag	tgtattttg
gaggaaggc	aaacctcatg	ggaggtggaaag
acctggaaaga	tgccggcagg	tttgccttgc
aaatgggcct	aaaggcagg	agttggcagt
gggaggtgag	ccttgaagag	gatgtcaag
atggtggctg	acaaaccaca	ttggggag
tcccagccaa	atgtctgggt	actggcagt
aaagagttag	tcagaatgc	gatgtcaag
gtgaggcaaa	cagccctact	gagaataggg
gagcgtaagc	tgaggccc	agtcgagca
agccatgaaag	actggcaacc	gagatggaa
tgagaataat	gatgtcttgc	caggggtgaa
taagtgaata	gaaactgccaa	gtgtatagca
tcactgctga	gtgtatagca	aatgtctatc
	gtgtttatag	gtgtatagca
	tcactgctga	ccccaacaga

tagatactat cataagccca attttattat cattattatt attgcccagg ctggagtgc 9300  
 gtggcatgat catgcctcac tgcagccttg acctcctagg ctcagcgat cctctcatgt 9360  
 cagcccttcct gagtagctgg tactataggt gtgcaccacc acgcccggct aattttgt 9420  
 atttttgtat ttttttgc gactcagggt cttgcacgt tgcttaggct ggctcaaac 9480  
 ttctgggccc aggcaatcca cctgcctcg 9540  
 actaccacac ccggccctaa gaccattt ataagtgaga aaactgagcc acgcatcagc 9600  
 tcgaggtgc aaagcttgc agtggaaagtc aggattgaa ctcggaggca gtacagaagt 9660  
 tgagtgccac tactcctgct gatcacatta agggagccag agatcaaggg cctcttaaga 9720  
 aactaggaag ggagggtggt ggtattacca gaaagagggg tagcaaatca ttacccctgca 9780  
 ccctacctcc tagttccct gtccttaccc aaagaccacc cagcttcat tttgagggt 9840  
 gagaatacaa aggaggcaaa cttctgaaga acatgttca ggttaggtt ctctgtatgt 9900  
 agtccacaga gggtaacta ctgcgtgtac caccatcaactt aaacaactt gtaggttcag 9960  
 gatcctggc acgaatgcag agcaggacca gcccagacta ggtgcattcc ccaggccttg 10020  
 gcttcattgc agacaacctt gagcaaggc ctcattgc ctttgcaggag ggtcaattc 10080  
 acacctctgt cccttactc ttccacgcct ctgttctggg gtattgtatgg atgtcctgc 10140  
 tacctcttag atggtaacct agacagtgaa cgtgaagcag ctttctccc ttccatgtct 10200  
 cagaaggac ccattcatga ctgcattggaa tagacagccc aggcaggaaa tggctatgtt 10260  
 ttttgcagc agtgcagac aaaaggagga cacaccagtt tgaggggaga aaggcattca 10320  
 aattggcaca agctgaattt cccacaaattt gccacagccca ctctcaactt gggacaaagg 10380  
 ttatgaaaca cgtcaactaat actggagttt ttatttttt aaagagcaac aattattttat 10440  
 tttactcattt agacttcattt tggggcagggtt tttaaaggga atgacttgc gatgttccat 10500  
 gatgtcaagg gtctcagctg ggataactt gttggctgaa gctaaaatgg ctggggacg 10560  
 gctggacatt tctttctctt cctgtggctc cagagcctct ctctctgcgta tctctccagc 10620  
 atggcaacctt cagggaaagt ggacttcaca catggagact gaagggttcca agagagagtc 10680  
 atggcagag ctgcaaggct tcttttactt acctcaactt gaaagtccca gagcattattt 10740  
 cctaccacat tccactgctc acacagagcc atccctgaca tgggtgtggg gggcattcca 10800  
 caggggcctg agtattggg agtgcagatc actgggaagc catcggtggg gctggctata 10860  
 tgatttctt gctttgggca ttaccttactt gaatagattc tgggtgtgatt tcacgtttac 10920  
 cattttata tagaggctat tgcaaaagggtt atagatgaag agataagtag ggtggctttt 10980  
 gggggaaaggg gattggagct tcatgctctc cctggcgcac aaccctccag gaacccccc 11040  
 gtgttcaact atctgaaagc tcaagttattt tttttttaaa caagaatata catgccacaa 11100  
 acatgcagat tccctggctcc cactgcagac ccactgaattt ctttttttgc ggttggggcc 11160  
 caggaatctg cactttttaac aaatctgcca gaggcgtgag ctgtaaaagt ggaaaagagg 11220  
 caaaaaggccca ctaggaagaa agagtactt tgaggactca actgcactg cattgttagag 11280  
 gctaaaagaaa tggaccctt catacagtgc taccgcctaa ttatcttccat aggtgttgc 11340  
 atccccattt tatagttggg aacgctaagg ctttagaagcc aaaagtccacc cagccagca 11400  
 gtaatgaagc taggctttca acccagcttt ttttttttgc gtc当地aggc cacagttgt 11460  
 atagttatgc caacccatat ttgttatattt atccctgtt tgc当地tttgc agtgcataaa 11520  
 atctaaattt aaattcttgc gaagatccct gcctccacaca gacatagaga aattaaatgt 11580  
 tttgataacg acaacaataa gaagtaacat gtatgtata ccaggcatg tcttaggtct 11640  
 ttacatgtat ttactcattt aattcttgc gcaattttat gagctaaatgg cccttatcc 11700  
 cctcatcattt tttttttttt cacagatgaa gaaactgagg ccaggctgg tggctcatgc 11760  
 cagtaatcca agcatttcaa gaggtgtgaga tgggtggatt gcttgc当地cc aggagttatga 11820  
 gaccggctg ggcaatataa caagacccca tctataccaa aggaaggaa agaaggaaaa 11880  
 aaggaaaagaa ggaaggaaagg aaggaaaggaa ggaaggaaagg aggangnnn ggnaggagg 11940  
 gagggangga aggaaggggag ggaggaaaggag gggangagag ggaaaggggng agggagggg 12000  
 gggaaagggggg gggagagaga gggggggagg aaaagagggg aaggggagggg agaggagaaa 12060  
 gagagganag agggagaggg gaagggaaag gagaaggaga agggagagaga aggaggggaga 12120  
 gggaaagagga gagggggagggg ggaaaagagg aaagggagggg gagaaggggaa aggaggagac 12180  
 gaagggggaaagg aggaaaaaaga gagaeggaga agcagagaag gacgagcgcg cgeagggaaage 12240  
 gggcaagacc gagaacggag ggcgacggagg ggcgaagngc agagcggggaa agcgcacggac 12300  
 ggcacagac ggacgacaga taacggggcg agcggaggcgc gcagcacagn acgcgcgc 12360  
 cgccgcacca acggagaaag agcgaagatc gaagagagat acgagagaga gagggcaagag 12420  
 cacgcgaaga gaagagagaga gagcgcagcg gccaaaagga cggacagcga ggcannnnnn 12480  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 12540  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 12600  
 cgcctatccc ccccttccccc cnccggttac atgtatggca gacagggaaa accgggtgctt 12660  
 atgacatacg cacaatgcgg ggggtttgaa gggagggaga aacagctcaa gccaaagaat 12720  
 gcaagagaga aagcaagcg acacgaggag agaaaggagg aagaagtacc ggaggaggaa 12780  
 agggaaaccag agagagaaag aaaaagaaga aagaataaa gggaaagagag aaaggagaga 12840  
 gagagaaaga aagacaaaag aaagagaaga aaggaggaaa gggaaagaaag aaggaaaaga 12900  
 aactgagaca cagagaagta ggggaacttgc gccaggattt cacagatgt ccacagtgg 12960  
 gtcaggatta aaattcaggat tagtggctcc taagttcatg ctttttagctt ggataccatt 13020

ctgcctctcc aggctccaca aaagcttaat ttgctgttc ccaagaatag acatcagaag 13080  
gccagtgaga caagtaagaa agaagtggga agatagctgt aagaatcact ttggccaaa 13140  
tatattctg gtgaagccat tggaaagtgt tttctgagca aaaagaaaaag agctcagaca 13200  
ctagaggcga atcattttaa gagactctga gatggatttc atgcaggagt ttgcaaattc 13260  
tccccaaact ctattnaaa tgctgtgtac attagagaag acaaatacat ggaacatgt 13320  
actgtgttct tggatggaa gactaaacac tgtatgtatg tcagttctcc ctcaaattga 13380  
tctgttagatt taatgcata acaattgaa ttcagtggt gttttcatg gaacgctgca 13440  
agatggtca gaaatttga gggagagca tggccaagat attccaaag aaaaggagct 13500  
cgagaatctt gctccaccag ataggaaagt gtattataa acaatgttac ttaagactgt 13560  
gtggtaattc ttggcacag ataataagac caacagaaca gaagagagag tccagaaaaa 13620  
aacccaactg tacaaggaaa cttgtttat gatagagaat tctctgtatc ttagagcaga 13680  
gaagggttaa ctacttaagg actggggcag gacaatttgt tatctgtatc tcaaattgaaa 13740  
aataatgaag tggatccc acctcacacc ctatacaaaa atcaactcca ggtggacatc 13800  
aatatgaagg acaaaaactgt caaattttaa aatataactt tggaaaatat cagctaggga 13860  
cagattctt aaaccagaca taaatataga aaccaaaaaga aaaaattgtct acattaaatt 13920  
acattgaagc taataaccc tacttacca tgcagccaag aaaagatgtt ggcaacattt agtcacccaa cagagcaaaa agattacaa 13980  
gtactgtgaa ttaataagaa aaacattaat tatcatcatc tcatagaaga aaaagaaaca 14040  
gttgaacatc attagaagtc agggaggtgc caccggaaaatggggcaaaa gttaaaagcc 14100  
caccggaaaatggggcaaaa gttaaaagcc 14160  
gagaatttag atgtgaagaa ctgacacggg ttttagagaat gtttggcat tgcttgataa 14220  
caattcactc ctaagaataa acccttagaa 14280  
taaagcgaaaatggggcaaaa gtttggcat 14340  
caaatgcct tcacagttgg atgaataat 14400  
tataaacaac actgaaaaca agtgaactgc 14460  
gaaacatatt gggccaaata agtcacagaa 14520  
aaatttgaag aagaataaaac taacaatgt 14580  
attataaaga aaaaacaaag aagtgggttt 14640  
gcagggaaaca ggggtgaatg tgcttagggg 14700  
gggatattct atttcttaac ccggaaagggt 14760  
tattattga actgtgaaaaa agataataca 14820  
ttcatgcagg atttgc当地 atgcggccaaa 14880  
agacaataac atggaaagat gtactgtgt 14940  
actaaatttt aaaatgtgtt gtgtgtgtgt 15000  
tctcatcaga ttagtctaagg aatacctgg 15060  
tttctgagat tctgtccaga tattctcgaa 15120  
aggtcaactg gccaaacccctc cctctgttt 15180  
ctccctccat aactcacatg actatcttaa 15240  
ggggaggggca agttcccttt tttctccctgg 15300  
ctccctttc tcctccctg gctctcgac 15360  
tccacctgca tattgctaatttggcc 15420  
tgagtcaaggccatgggtgc tgctcacag 15480  
ctccatttctt ctctcccccc aacacctctg 15540  
tgcagggctc agctgggctt gcattggca 15600  
ccctgtcacc cacggaaaggca tttgggttt 15660  
tcacttaggc tgagatcag tagcatgacc 15720  
tcaagcaatc ctcccacccctc accctcctga 15780  
cetggctaa-tatttttttt-aaaatttttgc 15840  
ctgggttcga acacctgggt tcaagcactc 15900  
ttagacttcg gattttattc tgaaggagat 15960  
tctgaacttg ttccaaaag gtgtttcttag 16020  
aaggggagaa gtcaggaagc ccattcggag 16080  
atggcttggaa acaggggacac caccatgagg 16140  
catttgcagt aggattggat gatgtcaag 16200  
ttgtggccca aggaactaga aggaagaaga 16260  
aagcagggtgt ggtgtgggtc aggaagggg 16320  
ttccagggtgc ctgttgcattac ccagtagtg 16380  
tgaagttcag gggagcagcc cagggagagg 16440  
gctctttat gccatgcctt gaatatggtc 16500  
aggactgagc cacaccgcac agatcggaa 16560  
tgggttctg aaggaggcggg atttcagttc 16620  
tgcagggtat cccaaaggca ctttagtggg 16680  
atggagggtct tatgttattt gtaaaatccag 16740  
16800

cacaacttat gccaatgatg aatgaattca gggcaggtca gctgcagtgt aatatatgcc 16860  
 tattgtcccc tgatcaagac agaaaagacag aatgaaaaagg aagaaggaag gaaggaaggg 16920  
 agggagggag gaaaaaaaaga ggaaggaaag aaatcagggg gagaagaaag gaaaggaagg 16980  
 aaggaaggtg gaaaaggaga gagaaaagaaa gggactaagg gagaagaaa aaaggaagga 17040  
 agggaaagaaa agagaaagaa aaagaaaagaa agaaaaaaga aagaaaaaga aagaaggaag 17100  
 ggagggaggg agggaggaag aggaaggaaa gaagtgggg aggaaaagaa gcaaaggaag 17160  
 gaakkyaggr maggwsgmk aaagmarkgk arkawakgms wawkrwmmmm kgawsaaaga 17220  
 maagararas agaawgaaaa graagaagga aggaaggAAC ggaggaaaga aaagagggat 17280  
 ggagggaaaca aatatgttagg caaacacctc tccttttt tccttagtct cctcattgg 17340  
 gccatggagg tgttagttct gatacgctcc tcagcggaca caggcccttg gattctaaat 17400  
 gtgtcccagc ccagctgtg tgttcaggg ccccagtgtc tgtggggaga tggccagaga 17460  
 tggactcaca gcatcagcca ttgcctttta ccccattggcc tgtgtcacca agtgcctgg 17520  
 taagtggaaag tgatggctcc ccagagatca cattagctct gataatgctc cagcctccca 17580  
 tgcacaactt gcccctcagc cacctggctg ggcaggaaga agggctccca gagaagccac 17640  
 atggcccat ggcggtgagt ctggcgaga gatggagaga gacgccttcc cttagccc 17700  
 agtcccagcc tagtgtcctc actgctgacc cccggtagtc tctgaaacca cagatggagc 17760  
 tcccagactt gctgattggc ccccgtgatg gcgtgcgcatt taggaggaaa tgcctccctc 17820  
 cacccttcta gcaaacactt ccagctccat gcccacaccc cttatcatcc actgttccctg 17880  
 ccagtgcaga cccaaacccaa tggcttcstg ctgccagttac ctggggctct gctgttagcc 17940  
 tttctctggc agcaggacag gctcatccct ttatcagac aggctggact tgstggaaag 18000  
 ttgacactct gggggcggcc ttcatggata aatactstag tttcttggc cctcaagtqa 18060  
 gacaacccca aggcgtgctc tgtgcagtct cccgaggccc ccaccaggc tgagcaccwg 18120  
 tttcccccagc agcaagtgt ccttaatcta ttcttcttgc gtttcttcc ctttgcgttc 18180  
 tcacttctcc tctcccaac gattgcttcc aggattatct cctaaataaa ttacttgtat 18240  
 tctaattttt gtttccagg ttttctttag acatccaaata caaaacgaaa ccaatcaaag 18300  
 acaccaaacc caacaaaaga aagagaactc ttctgggtct gtattgtaca ttttcttgg 18360  
 gcaccatcta agtaacagaa tacatcacgc tataaaagag gagtttgact ctgtttaggg 18420  
 caaataactg tacaggcaaa taaacacgc aggtggttat cagggaaaggc ttacacgtga gggtagctgg aggttttgg 18480  
 gagttctcca ggttagaaaaa agaatgatgg aaacacgcata ttaaaaaaacc cagaagtgt 18600  
 aaaaagcaca aggtactcag gggaaacctt agtagtttag tatctctcat actactggag 18660  
 aataaagcat attttggaaag tgataaaagga tttttaggaa aaatgaggag agaattagaa 18720  
 tagcaggagg tttttttttt tagccagat ttgttcttgcata cttgtctata ctcctcaaaag tttttaggca 18780  
 ttatcttggaa aagggttggag gattttttaa aatataat gtcattgtg gaaaagttgg aattgtgggt tatctttttc tgattgcata 18840  
 aaattacctc aaatccagag ttaattaaat catatacaga gaagtataga gaagaaaata 18900  
 gtttcaggca gaggagttag gtggcgcac cacattatg ttttgggtgt tttcagagga 18960  
 tgacgatcat gcagctggaa agataactgaa ttgtgggtgt atgagggtcc tctttttttc ttgagttcta ggttagagctc tggcagctgg 19020  
 ctttgcaggc ttttgcagg ttttgcagg ctttgcagg gggtagagg agagaaggccc accatgacta 19200  
 ctttgcaggc ttttgcagg ttttgcagg ctttgcagg gggtagagg agagaaggccc accatgacta 19260  
 ctttgcaggc ttttgcagg ttttgcagg ctttgcagg gggtagagg agagaaggccc accatgacta 19320  
 ctttgcaggc ttttgcagg ttttgcagg ctttgcagg gggtagagg agagaaggccc accatgacta 19380  
 aatagatcaa aggagataaa caccttcat gtttgcagg ttttgcagg ttttgcagg ttttgcagg 19440  
 gtgtggaaac ctacagttct gaagcttttgc ttttgcagg ttttgcagg ttttgcagg ttttgcagg 19500  
 acctgccttc ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 19560  
 ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 19620  
 atgctctaaa caccgcacca caccacatt ttttgcagg ttttgcagg ttttgcagg ttttgcagg 19680  
 gtttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 19740  
 gtttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 19800  
 gacaatttcg gatagcgatg taacaaaatga ataaataggg tgataggata gagtgagcgt 19860  
 gtattttgc ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 19920  
 agagaaaaaca gcaagtgtaa aggttttggg gtgggttta gtttgcagg ttttgcagg ttttgcagg 19980  
 ggaaagggtca gtgtggctgg gtttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20040  
 ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20100  
 ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20160  
 ctggtctggg agtccttgc ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20220  
 acacagcaga ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20280  
 ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20340  
 ctttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20400  
 ctttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20460  
 ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20520  
 ctttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg ttttgcagg 20580

gaatgataaa	ttgaaagaat	aaatagtagt	tctcagccctc	acagaacacg	ggtcacaacc	20640
tcaaattgacc	tgcttacccctg	cccataaata	acagagatgc	aggagtaagt	gctgggctgt	20700
gacctgtcaa	catgctaagc	cgctcaaaca	aaactgccca	acagcccgt	ggccgcctat	20760
ttgcagcaact	ggggccctgag	ccgcacattc	ccathttgcgtt	gataaaagaaa	ctgaccagat	20820
agtttaagtg	gcctgctgag	gaagacagrg	ctgggtgcgt	accggtcgt	gttccccag	20880
tcctttttg	gccttccttc	tgacgcgacg	cagaccggag	ttctggagag	tctgtcactc	20940
gctccccgtg	gtggggagatc	agaggcctgg	tgtccttggg	agcggcgagc	ggtgctcgcc	21000
gcaggataga	aagggagtg	gcccgcgagt	cccccaagatc	cctggggaaacc	cgcggcaccc	21060
tcccgcccc	gccccatcccc	ggccgcgctg	tcagtcctcca	ttagcgctaa	caggctccag	21120
acggagcggg	ccgggwgctg	ggttaatgca	atcggcgcgt	tacctggggc	gcaggctaca	21180
ttaccagccc	ggccccccgccc	aggcacggcc	agaaccagtc	agcccgcgcc	ctgcggcccg	21240
ccccgcgcct	ccagctcttc	cccggggcccc	gcccgaacgc	cacacggcg	agccagcccc	21300
cagcccgcgc	cctagagcct	gccaaggcgc	cgccggctgg	ggccggcgag	ggcgcagggc	21360
accaggagtc	ccctcgccgc	cgacacgtg	agtgcgcct	gagcgcggga	caggctagg	21420
tctgccttggg	aggcccgggc	cgagacgcgc	cagcagaggg	ctagcgagtt	tgtagtgcag	21480
tgacgttaag	tgtccgagaa	ggctctgtg	gctgttgaag	tgtcgccgac	ctgagcttgg	21540
ggagggggtc	ggcacgctgc	cctcagcctc	ggtgagttca	atcccagcca	tttggggcag	21600
ggaragtgg	gtgaaacgag	gaaaagtgt	gcarggtctt	cagccgcccc	casarggctg	21660
tcagaagtct	ccaactcttgc	agtccggcg	tgccccaacc	tctgtttccm	aattttcca	21720
gcggacgcgc	getctttct	gggaaccctg	cttcggctca	gcgcgcgctc	atcccaagtgt	21780
ctaaggcgct	cccggtgtt	cttgggagtt	gcaagttaggg	aggaacggcc	gggttaaccac	21840
ctcttttccc	tttatccaag	cagagcctcg	gcgtgcggcc	aggaccggta	aagtccctct	21900
cgccagccgc	atccatgctt	ctggcgcgga	tgaaccgcga	ggtgcagccc	gagaacaacg	21960
gggcggacac	gggtccagag	cagcccttc	gggcgcgca	aactgcggag	ctgctgggtgg	22020
tgaaggagcg	caacggcgtc	cagtgcctgc	tggcgcggcc	cgacggcgac	gkgcagcccc	22080
gggagacctg	gggcaagaag	atcgacttcc	tgctgtccgt	agtcggcttc	gcagtggacc	22140
tggccaacgt	gtggcgcttc	ccctacctct	gctacaagaa	cggcggcggt	gagcgtgggg	22200
tcgggcttggg	aatttgaatc	tggaggtcc	actgtctgca	gccccggctg	ggacaggagc	22260
tggaatatac	acggaaaggga	ggcgaggaga	caggggcaaa	tctggggcgc	agaaaagaact	22320
ggacagggct	aacggggaaaa	aaaaaaagatt	ggagtcctct	ggaagggtcat	tttcccaggc	22380
tctttgcaga	gtacctcgag	ctcattccag	cggaagtgtc	aggattgggc	acccttggaa	22440
caaaacacga	gaagagtgaa	atcgagtcat	gaccctaaag	tcatggtagg	ggtatggatg	22500
gaaaggacag	aatctgggtt	gccaggttgg	gtgggggagc	ctgacccctt	gatggctcgc	22560
tggaaggggag	gtggagattc	caagagctct	tgaaggggca	ccagaagtgg	gtgggatttg	22620
acaaccaggc	ccacagtgcac	cctaaatcta	gcactctgag	cctgggggca	ggaaccccttgc	22680
ggccagaagc	agtgggaata	cttcggttt	ctgaaggcac	ctggggagggc	cctgtggctc	22740
tggggataga	aacacacaag	aagaagccag	tatcagaat	aatgcatttc	tcagggagca	22800
cagcccgagg	ggaatcaggc	cagtaggtgc	caagaactgg	cctgggtcctc	aaggcaggag	22860
gcccagatga	ttgggggtgaa	acctctacct	cctcaagttc	tagccgcatt	gcaggggagga	22920
gtgggagagg	ggcctgaaaga	agactccagt	ggaacagcca	cactctctcc	cccttctgtct	22980
ggatggtcca	actggccacc	tgccctgaaaa	tgagagccct	gagatcacct	acagccaatc	23040
caggaagaat	aacatagaac	cccgcccgag	ggaagcggtc	tgaaggtcag	ggtgctggcc	23100
cccacccccc	agtccttcc	tgaggggctt	tgctcctgcgt	gtgcccagtc	ctgcacttt	23160
tgctgggatg	agtcagagg	tacctgc当地	agagtgtggg	aaaatagacc	ttttgaggaa	23220
gaaattggag	aagggggacc	cagctctgaa	agcctctc	tctccactgg	gctgcattgc	23280
ttggcggtag	ctgtgactct	ggacttaagg	gaggtcagag	ggaggaaggg	caagaatttg	23340
gagctgggta	gagggaaagc	tcatgacctg	ttcacaggct	ctaggactta	caactctgtct	23400
tctatgtgta	ctctggacac	ttgctttggg	acgggcaata	cttgggtt	gaaaaaaagg	23460
agtggggccg	ggcatggtg	ctcatgcctc	taatccttagc	actttggaaag	gacaaagtgg	23520
geagattgee	tgageteagg	agttegagac	cageetggc	aaeatggtga	gacetegtt	23580
ctactaaaaaa	tacaaaaaaact	tagtggcg	tagtggtgc	cgccctgtat	cccagctacg	23640
caggaggctg	aggcaggaga	atcacatgaa	cccgggatgt	ggaggttgca	gtgagccaa	23700
atcacgeecac	tgcactccag	cctggaccat	gggtgacaga	gcaagactct	gtctcaaaaa	23760
aaaaaggagt	gggatcacca	tagacacag	gtggctctga	gcagaggatc	ttgagtaaga	23820
aagcagttag	ctcttccaaac	gagaaagtt	acccaagggtt	ggagctgaca	gatggagggtt	23880
tgcgtccatg	gtctccctga	cacccctcgt	gatgggtctg	tcattgtcag	atactctgag	23940
accagatagc	tgggacagca	gtcctgagct	tcaggggcat	ctgaggtctg	gggcctgatc	24000
cgtggggaaa	caacttgtga	ctctgcgggc	tcaatgttttgc	tgtctggccc	ttggatggtc	24060
atgggcagag	agagaaaggt	gagaaaagga	gaagctaatac	cagaggtgaa	acttcccac	24120
ctttggccgc	tgcaagctct	caggcgatc	tggcagggtt	taagcatggc	tggttggggcc	24180
caggaagggag	gaaaatgcag	attctctgt	tcttttaaga	ggcaggggaga	tgatgaatga	24240
gagaccttaa	gaccggccat	cccgcctgtc	ctcagtgcacc	gccccagact	gcttgcctct	24300
agacagtgg	aggctctgtc	attaatcaqt	aatatttttc	tggttctct	ttggcgtqagg	24360

cacaatgcta	ggctctgcag	gggtcacgg	caccaagagg	catgaaccac	cacttctgcc	24420
tgccaggagc	ttaaatcacc	cgagtctta	ttgtcatgct	gctagaagtt	cttcccattg	24480
ctctatgtgt	ttgttgaaaac	taaaagcatc	cagatggcca	atttacaag	tcagcttagat	24540
ggatattcca	gggcttcat	tgacactgt	tgctcttag	tcattgccag	aaaaataaag	24600
agcacctgtt	gtatgcagt	tactataaac	caggttctta	gatgcaaaa	tggagcaac	24660
ttgtcacgag	ttccagtctt	tagtgaago	tgaccgaggg	cacttctcc	cgggcttgct	24720
atctcaaaaac	acagctca	ccaagttgtt	tggtggttt	tctcttgcg	ggtctgtctc	24780
ccaaacacgga	aaaggcaca	tgagggcaga	gactgtgact	tttaatctc	tgttgcgtt	24840
atgccccaga	taagtccat	atcacaggaa	tgtggtagaa	ggtgccc	aaactgtgt	24900
tgaataagct	aatgaaatgc	tccaaagccct	caaagac	caaccgtatt	cagaaaacaac	24960
aacagaaaaca	ctcagtggta	actaataaag	tgaagccaca	tacaacagt	ggcagggggc	25020
agcctattca	ttagtggct	tagctgtgg	gtcctgggtt	ccagttctc	gctgtaaaggc	25080
tttggcaagt	ctccaaagcct	cagtttctc	acttgtcaaa	tggaaataat	ggtgctcagc	25140
tcagaacatt	gttggggg	ccaaacataa	taactcatcg	agagcctggc	atggattgt	25200
gccttaggaa	aggtggctgc	tgattttgtt	aatgtcatta	tgtatgtgt	tgaaatggat	25260
ggagagacaa	gtgctttaga	caaatactct	aaaggcctga	gaaaggcgt	cttaggaagg	25320
gctgggagga	ggtgggctgt	ggttgaagct	cagctgctc	gatggggaa	ggtgcagaca	25380
agcggtgaga	agggaggaga	tctccagct	tgcacctgg	gcaggaatgt	acatggaaatc	25440
atctcagaga	acaggagtgc	aggctggct	cagggcaagc	caggagagat	aagggtgcag	25500
gggcaagtt	gggcccagget	gcagaggct	tgaaagccag	gtaaagggtt	ggggatatta	25560
taccagtcaa	tttcccttcc	<u>tggtttaggat</u>	gttcacagtt	ggtgtcagg	agcagtgcag	<u>25620</u>
ccctccatct	cagactatga	ggtaactct	tctctcactt	acccctc	ccttcagaca	25680
tgctcagcta	gtccctctg	ggcttttatct	ctgcggaggc	ctcctggctt	ctctgtctt	25740
ttgtggatca	attctcatcc	agtaattccc	aaattagccc	cagagatgag	agtgagtgt	25800
caggaaggt	ggtcttgc	gttgcagaag	cagccgttta	agactggagt	ttgagtctga	25860
gctctgcctc	tcactgtgt	atctcgggca	tagtacagcc	cctctctgag	cctcaagtcc	25920
ccagccatag	gtgaacatga	cctgagataa	caccacaaga	tttattcctt	tccaaatgccc	25980
tggctcaggg	ttacactgaa	gccaggactc	acccagtct	ttatthaaca	gccctcagtg	26040
tgctcttctg	gtgccagtt	taacactgt	acctctgca	ttctgactgt	tcatgctggc	26100
ccagaatgga	ggatatttt	aatgatgaa	ggtggcaatg	gtttaggccc	ctggctaattg	26160
ttttctgaat	gaattactgg	aaaagatcag	cctgtctgaa	catcttcccc	atggccagct	26220
gctgggatgc	acgggctgc	ggaggctct	ggagggaaa	gccactctca	gaaattccgg	26280
agctttttc	agaacctt	caaatactgt	gtctccatga	ggaggcagta	tcaggcagtg	26340
attctagagt	ttcccttgc	acctgtgatc	ctggctgt	ctgatccctg	gggaagagca	26400
ggaagattga	ctgggtgctc	attttgcct	ttcttccagg	gaagtggcca	ctgtgaattt	26460
acctttgcac	atggctgctt	ctgtttgagt	cctgtcc	ggccagctta	gagctgtca	26520
ttttagagaa	atatagtctt	tagttcagg	gtctgagtt	aactttgt	agaaaggtaa	26580
cgtatagacaa	atcactcacc	tttgctgatc	tgagcttcag	tttccttaca	cagaagagga	26640
gaataaccac	agcacctt	tgcagggt	gatggcatca	gagacaatat	atgtaaactc	26700
cttgaatga	tgtcacataa	tagggctcc	ataaaatgt	tctttagtat	tttggatttg	26760
ttcaatgata	ttaactgc	gctagactt	ggagtgggc	aggatcctg	ttttggaaat	26820
agcagaattc	atcctaagat	gaaattgata	aaagggaaata	aggctggaaa	atagtccac	26880
ttgggtctgg	agcccaagca	tgatagactc	aggaatcagg	ggatgggctt	tgctccattt	26940
cctaacagcc	taacctt	tcaaaaataga	ttcacac	gtaaaatgg	gtttataatt	27000
cctgcatggg	gtcccatgac	cttctgtat	tctgcgtcc	cagcggactc	tctctctcc	27060
ccaaaggaagc	tcaagatctt	agggcccc	agcccttgg	gagcccttgc	ggccaaaata	27120
tctggatcc	ttaatactga	gtatgaagca	gtagctgct	cagaggtcag	gagctgtca	27180
actcagtgt	tttatatctg	gcctggct	aggggctat	ctacaccc	ggcttgccaa	27240
gccagacact	gattgtc	tcagatgcac	aatgagccag	ccagctgg	ttgcactcag	27300
ctgacaatgc	tgtacateee	tttggcagaaa	tgtgggtcte	atctgggacc	ctgatctgag	27360
gtcactggca	ttgtttggct	ttttactc	agcttgc	aaaggatctg	aaggggctgt	27420
tcctgacaag	attgggat	aataggata	aatgttat	cctgccttgc	agtccaaac	27480
ctaactgc	aagtaaggat	taggccacag	cacaagtgg	gaaaggcccc	agggtttca	27540
ttagctgc	ccttcatgt	agtactgt	gagatccatt	atttagccaa	aaaaaattt	27600
ctaaatgc	atcatatgc	aggaatatgg	agatgagca	aagaaaatcc	ttgcctttaa	27660
ggggctcatg	atatgctgc	gatctgt	aagtggta	ttttgtatc	caatattgga	27720
ggttataatc	ccaaatgggg	gaggtgaggt	cctgctctgt	tatttgcgg	tcatatttcc	27780
ctctgtatg	tagtctgag	caaccctct	atgttttct	cttaaaagaga	ctaagatgga	27840
ggaaatggaa	accagaatct	tcacagagat	tttactaaag	ccacagctt	attaggaaaa	27900
atcaagtcc	gatcctccaa	agtgacgac	agatggagaa	ttaccacatg	aggagggta	27960
gcccggcgcc	agtttccct	aattccaccc	ccattttct	acttagagca	gctgggttta	28020
atccatcagg	ggagtgggt	tgttccctca	gtggcctgt	ttccaggtct	ttcactcagc	28080
aacaacaatc	aacacagaag	acgtctgt	ccacatgtt	gggggtttt	cccacacat	28140

caggcaagta	atcaagtctg	cagcagacac	cagctgagtg	cctccgattc	aattcaattc	28200
tggtgcgtc	tacctggaga	tagcatcaga	tcccacaggt	tgaggcattc	ccacaagaat	28260
gccctcaact	ttgtgttct	ataatgagcc	ccaggtgtt	ttactgtgt	tctgaccac	28320
tgtctataaa	tcaggggttc	ccccacccct	tgcttgggtt	tgattaattt	gctagagtgg	28380
ctcacagaac	tcaagaggaac	acttattac	attttctgt	atggtttaga	tatggtttgt	28440
ttgtctccac	taaaaactcct	gttgaagtt	gaaccccagt	gtgggaggt	tgggaggagg	28500
ggcctagtga	gaggtgttt	ggtcatgaga	gtggatccct	tataaatgga	ttaatgtcct	28560
ttggagaggg	taagtgagtt	ctcaagccac	tctcttgggtt	ccccttgc	catgtgatct	28620
ctgtacccct	gatcccctt	cctttctgc	catgagtgga	agcagccaga	ggcccccacc	28680
agatacagct	gcccaacccct	gaactttcca	gtcaccagaa	tcatgagaca	tataaacctc	28740
ttttctttat	agattcccta	gcctcaggt	ttctgttata	gcaatgctaa	acagaccaag	28800
gcactccctc	accttacact	tgggtecctc	cagctgaggt	cttaccatag	ctctgtgtac	28860
tactatgaaa	cctatctgtc	tatctatcta	tccatctgtc	tatctattgt	tctattgttc	28920
ctggctcaaa	ataccaatag	cccttgttgt	aacattgggg	cacgttagc	ctcagaaaac	28980
agaacctctc	tctctttgac	cttctcctgc	cctccttcca	tctgctccct	tatctctcca	29040
aggttaggatt	tttccctggc	ttttttttct	tggagctggc	agtaacaaaa	ttctctgacc	29100
cactttctaa	ttgtgagtca	taaaacccccc	atttcagaag	gagtccctgc	ccaggccctg	29160
gggaaaggaa	tgctgcacag	ggagaccgag	aagaatctga	acagacaggc	cttgctggc	29220
tttcccaactc	agcttattag	tattacatca	tactccattc	aatcatgggt	gccaaacatg	29280
cctatctaata	gacatctcca	tagaaggccc	aagaggacag	ggttcaggag	tttcaggaga	29340
<u>ggcaaacaca</u>	<u>tggaggttcc</u>	<u>tgagtaggaa</u>	<u>atgtctgagg</u>	<u>ggccatctca</u>	<u>gcttcagaac</u>	<u>29400</u>
tcttctaggg	tcaagctaagg	tttggcctgg	cgtatctgt	cccccgctt	ggccgggtgct	29460
tccattccct	aaatctcttc	actgcatgca	tccccctccc	actaccttca	tgccatcctt	29520
catgcagcac	tacagggcac	tctttctagg	taatggggct	ggctgtggcc	tggggcatac	29580
ctttgtctcg	catttgctca	tggtcagcac	tcttgtttgc	acacaagagt	agagtagcca	29640
gccccacttg	ggacagggac	ttggggatcc	cagagcaactg	ccgcagagtc	ctgtgtgtgg	29700
cctccagctg	gcgttcatgc	tgtgctccac	aaaggggccca	gccaccctcc	accacacaag	29760
acagccctta	cttcctgttt	ccagtggaca	gagctgtgc	acatctgtc	ttgagtataa	29820
tgacaagaca	tgagtcctat	ttacggagca	cccaacta	gcctggca	tcacactgt	29880
catctctgtat	tatcacagca	aaccagtgc	acaggtatta	ttatcgatt	tacaaagggg	29940
gagctaaggc	tcagagaagg	cacatttga	caagtcacat	agctatacat	agcagggctg	30000
agggacacca	ttatctttag	gtccaggcat	gaaggcctgc	cctaccttca	tgcttcagag	30060
agcacaactc	tgccccctt	ccatctcatg	ggagccaa	gtgcctgc	accacgcaca	30120
ctccccatata	gaataacccca	ccacccttcca	atacccggac	gttggaaatc	cctgccccaa	30180
cagecctcagg	cacccttctg	ggtctacatg	aacatcttgc	tgggttccct	tttctgtgt	30240
gtgggctgtg	ctgcggggagg	tgggggtgtc	tgcaaggcgg	gtggacatag	ttggacacc	30300
tatgtgcaag	agccctgaca	tggctagatt	gagctggag	gaagtagggg	cagggcaaac	30360
gggtcttccc	ctgtacctcc	acattccagc	ctggagctcc	aagagctgag	aattccaacc	30420
ttgaacttta	taatagaact	actacaaagg	tcttttgc	aaagtaggaa	gacagaacat	30480
gttttattta	acagttgtt	attttgtcacc	tttaaatgt	tgcagtg	agcagcettg	30540
tctctgtact	aaagtttca	cttctcctga	tgcctactgt	gtgtttaggg	cacccttggg	30600
gtgttgggga	agggggacaa	atctagctt	cctaagtgt	gaccaagggt	ttcttgggg	30660
ctctgtgtca	tgacaccage	agcagacagcc	tgtagctg	ctgtgtgtat	caagggact	30720
attctgtgga	ttggcactt	ttgcatatat	caaggtgtgg	ccagaattca	cagtcgagg	30780
aatccctgtcc	tcaacaaact	aggtgtcagg	ggagcccttc	tccttcctga	agctctctt	30840
tgaccacact	acctccac	cccccgagat	cctcagcagg	tctggccac	tgcacccctc	30900
actgaacccct	tcctccagge	tttccagccc	tctacctggg	gtccttcctca	cctgctgggg	30960
gctgctccag	cacatccac	tctaaaaccta	atgaccccg	gttcccttc	ctgggtactt	31020
ggcatttgca	cagaggcttc	cagagccctt	ctgtacccag	aagagtttct	ctctaacagt	31080
gggatggggag	geaggtgtgt	tgggecagag	gtgatggggac	taatgetttt	cttaetaaaat	31140
tcatccaaag	gccactgttc	agagtttctt	tcatggtcga	cagttctttt	tctcatgtgg	31200
ttgtgtgagt	gcgttgcacat	gcaaaagtgt	gtgtccattt	tgcatgaga	tgcacaggtg	31260
tgcatttgc	tgcatgcata	tggtttttgg	agactcccag	gcaactggca	ctcgagctcct	31320
catgaggcat	gccctgcctg	tgtttttcca	ggtctgcct	caccagccca	gcacccatgc	31380
agccagggca	ttccaagata	agattctggc	cttgcagttc	tgagactctc	ggaccctgtg	31440
tgaggcttgt	tgcagctggc	actgccacac	atggagatgg	agcaggacca	cacaagtatg	31500
gcagttacaa	gccttgcaga	gcagttacttt	ttaggggtt	tgcaacsagc	ctcggtttcc	31560
agagaaccac	tgcagagctg	tttataaaaag	aggcaacttc	agttgacttc	actcatccct	31620
ggagctcctt	cctgactt	caacctgaag	agtttacttc	tgcaagagga	gaaggaaact	31680
ctcccaagggt	tccttctgca	agagtcctt	ggcaagctag	ctgtcctt	ttagaataag	31740
gcactggcca	cgggtagctg	gctgtttttt	cattctact	tagccatttc	accactctt	31800
ggtcttctta	atctgtttcc	acctgaatga	agcttggct	gccccacatc	aaatgcactc	31860
acagagaaga	gccgcaggca	catgcagacc	catcatcttc	cctcttttc	tcatgttact	31920

gtgcctccca	gccagcagag	gaagaataac	tccaaactgg	gcagtttacc	tatgtgttgg	31980
cagtgtcacc	cagagggtta	gagttgagga	aactggccaa	agttagatgc	ctggtaact	32040
ggctgtatgt	gcttttcccc	ttcccttgcc	atgcagcaga	gtatttagtc	gctgggggca	32100
acccacagtg	gcgaggtcg	agcagcact	cctagcttt	tccttcccc	cgttcccttg	32160
ggccactgac	ttccatcttc	aggcctatca	aagattttt	gttattttgt	ttgtttgtt	32220
tttttctctc	tttttctctc	tctctaatt	ttttttttt	agtcagcatc	tcactctgtc	32280
acccaggctg	cagggcagtg	gcgtatcat	agctcaactga	gcctcaaact	ctgtgccc	32340
ggctgttctt	gagttcttgg	gctcaagtaa	gcctccgtcc	ttggcctccc	taagtgttgg	32400
gactacaggc	atgagccact	gtgcctggcc	ctattaaaca	gtttaataca	gctatcta	32460
tgccccctgc	cctggctcta	gatcctcaag	gggagtagca	gttggccaca	aggcagagt	32520
gggctgcgcc	agatccagg	ttgaagccaa	gcttcatact	tgcttagttgg	acaagcaact	32580
taaccttct	aagcctca	ttccctcatct	gtaaaaaggga	ttgttgtaat	tctctctc	32640
gggtgggaaa	aaataaataa	ttatgtaaaa	acttgtgtc	agcttggcat	ataacaggt	32700
ctcaacaaac	ggtaacttgg	acttccacca	accccactgc	ctacccat	ctacatc	32760
acaccagcac	caccattact	gtcagcaatg	tgcataaggga	catgggtcag	gtggcaaaacc	32820
agcccttct	atgtgggaga	gggagaaaagg	aagagaatga	aaggaagaaa	tgaggaaggg	32880
gagaaatagc	acatggccac	tccagagact	tccagctgg	agcagtggct	gtagcattgg	32940
gccagcttat	gaccaataga	ccacatggct	tagctgtcc	cagatcccc	atttcagaac	33000
aacctaccct	ctgatccat	tcagactcat	gtccttcatc	taggctggaa	tgttccagaa	33060
tctgtgggc	atgttggaaa	cagctcttgg	gctcttggc	caggcagacc	tggacccaaa	33120
tcctagatcc	acaacttatac	agcaggataa	ggtcggtc	gtcatttaat	ttctccaacc	33180
ctcagttcc	tcatctgaaa	aatgggtata	gcagttgtca	tgtcagaggg	tttctggta	33240
gtgttaagtgg	gatcaagccc	aggctctgt	tgatacacag	gagatgttca	tttcccagta	33300
gttttacctt	ttccccctt	ctgcccgtcc	ccccaccact	gatccatctt	ctactcacaa	33360
gggacttaggt	ctctcagcat	tagggccaa	acttcatgt	tcctacttag	gagaggcacc	33420
ctgagaaaaca	agtggagact	gatagtctga	gtagctgagt	gagtttgacc	ctaggtatca	33480
tgtgactttg	ccacagttct	ttgctatctt	gaaaccttag	tttccatatc	tgaaaatgg	33540
aaataaataa	gatctttgt	ctttgtggg	aggattgaat	gaaagtgtt	ggagctcaga	33600
aggggacggag	caagtgtgag	ctgctgttat	ccattgttaa	tattgtcta	gttaccattg	33660
ttaaagtatt	tcctgtttc	ttgatgtggg	taggtcagag	agtattttgt	ttccagggtt	33720
acaacaccc	agctaaaggc	cagttgtac	aggagttgg	atctggcctg	gccacccctca	33780
gctgtgcgtg	gaaaggagct	ggtgtgtgc	tttggccaca	cttgcagact	ggggtcata	33840
tgacatgtgt	cccagtgtgt	cacctcgcag	agtcagaatc	cactaagcac	atcccgact	33900
gccaggggtgt	actgagaatt	gtctctgca	ctcagacacg	tctaaatc	ccaggaattc	33960
tcccaggaaat	taattgtctc	ctgggtccca	gggaccctat	caagtttctg	tgatgttctg	34020
ggtgggtgac	ttccctggc	agagacttga	acctctgtcc	ctttgtttca	gccacccctga	34080
acagtgggaa	cctagtgggt	cgcaaggccg	gaatgtgaat	ccggcttcca	tcacccatcca	34140
gcagcaccaa	aaggagccat	tagactccct	tctctggccc	tcaatgttgc	ctgggggtac	34200
gtaatgaccc	tgactggta	ttatgtttgc	aggctgtgt	gaaactctaa	gaagaatcca	34260
gtgagatcat	gcttgggaaa	gcaagccaca	tataccctta	tgtatagga	tgccagcaaa	34320
attagaact	ccgtcatgt	aatttggca	ctgtctttt	ttctctggc	tcaattttct	34380
tgcctgtaaa	aggaagggtt	tgggttagat	tggcatccc	agagtgtatg	ttcataaaaag	34440
aaaaagttca	gtgtttaaat	aaatctggta	aaggctacac	ctgtatccc	cctccctggca	34500
catcacagca	tgcacttgc	tatcaaaggc	taggagaagc	ctgcaagaag	caaaccatt	34560
ttgctttgt	taaccttagat	tttactaatt	tgaccacaga	acctcaat	tatgtttatg	34620
attattacta	ccacaaat	tcttactctt	atgataatta	gwattgattg	ctgcgcgtcg	34680
cctttggaaa	cagccagctg	agcagacgccc	caggatcttt	gcagctctg	cagacacgg	34740
tccaagactg	ggggggggcag	gggtctgtca	ggtcacactc	tgcccctgt	tcctccaggt	34800
gccttcttga	tcccgtacac	actgttcctt	atcatcgccg	ggatgccc	gttctacatg	34860
gagctggc	ttggacagata	caacccggag	gggggtgeea	cggtttggaa	aatctgecca	34920
ttcttcaaag	gtaaagaagg	ggtggggagaa	agtacgggtt	gttcataaaag	gttccctgt	34980
tgccttggg	gaatctgctc	cagttgttag	atctaaggta	gaccttctgt	catgtggat	35040
tcacaggtat	tgacaagggtc	aacagtgtcc	cccattccaa	gttacgttgg	gaggattcag	35100
tgtgttggg	atagcattag	catagaaatt	ctggaaacct	gggttctaa	ccagcttacc	35160
tgctgagatc	ccagagaatc	tatttctgt	atggaaatt	tttacgtaa	tatcagaatg	35220
acccagcaca	tacaccacta	ctctctcctt	ttgctccat	ggcaggcgtt	agaagttgtat	35280
catggatctt	tttgagccca	gccggaaagc	tgattcaaaa	tcctttagtac	aatagccaca	35340
actagtgtat	tgcagctgaa	atacaacatg	aagcctactt	gcattttgg	ctaagaacac	35400
atctgcagaa	agttaggcaga	gcaactgcta	tttcttggcc	cctatacagc	tgggagaagg	35460
gcatggagga	agagttgtc	tctcccaagc	actgggttgg	gaaactggc	cagatggca	35520
cgagggccag	tgtgactccc	atgagcctct	tctccgttgg	cacgtgcctc	ctgagtacat	35580
cttgcgtact	cagtcctgt	ggagatacag	ctggtgcaag	agtcttataa	gacatgtgc	35640
ttcgttactt	tttttgggtt	taattgtcag	aaattcaact	caaactggct	tcagtataaa	35700

agagaattga cttctgttac agtaaaagtcc ggggattggc ttcaggtata gatagatcca 35760  
 gatgccaaa taatgatgtc tggaatctat cgctcttctt gtgtttcaga tctgttgtt 35820  
 tctgttagca tcagtctcag gtaaattctt ctcaagtacc tgcaaagatg gccatcagca 35880  
 accccaggct taaattttac caagttaaa ttttacccaaa agcaaacaag taaacaaaaca 35940  
 aaaacccta tagagtata gttccttaa aggtcccaga gaagattctc attggttaa 36000  
 cttgagtcat atgcccattt actaaccat cactgtggct gtcaggaagc agtgcctgt 36060  
 ttggccaggc atacatctt cgatggagga agagtggga gtagcctcgc caacacccca 36120  
 caggctaattc atagcttaag gctaattctt tgaaaagcaa tggtggcag gtaaacaata 36180  
 catctaccct agaaaaaaagc tatagaacta cccctaaagg agcttgcgt acattgagga 36240  
 acacgatact gcaccccgaa gcaggtggct gagagtagga cccagaaagc acacagggt 36300  
 gaagttccaa tcaggggagt cttgcttggg tttcccaaga agcagttcg agacaaggat 36360  
 ataagtgtaa agagttagt cgggaagtga tccttagggc gcagcaactg gggataggga 36420  
 aggggaggca gccataaaagg gtgtgcacca agtcaatgcc actctggca gggagctcag 36480  
 tcccattcagg ggagaatgtg aacacctgtc agtgttatcc tgcccagggg gcgaggggagc 36540  
 tggatactca cgatccagct cctaaccgtgg ctgcccactg gggcaagca ggtggtgagt 36600  
 gggcagggga gctccagttt aaagagagag ctctggca aagagatggc agggccttat 36660  
 ggactctggc aatctgctat agcacgtttc ctcaatcccc gggccacgca ccaataaccg 36720  
 gcctgttagg aaccggggca cacagcagga ggtgagcagc gggtaagtga agttcatct 36780  
 gtatttacag ctgctccccca tcgctcgcat gaccgcctga gctccgcctc ctgtcagatc 36840  
 agccgctgca cttagatttcc ataggagcgc aaccctact gtgaactcgc catgcgaggg 36900  
 atctagggtt tgtgctc atgagaatct aactaacgc tgatgacctg aggtggAACG 36960  
 gtttcatctt gaaactaccc ccaccccaaa atctgtggaa aaattgttt ccattgcaca 37020  
 ggtcaactgg gctgaaaagg ttggggaccg ctgttctgca gaaacgaga gacagaggga 37080  
 atgggagtgc agtgggtggag ccacacccaa ggagaggtgg ctgtggggtt gggctggga 37140  
 gactcctacc ttaccccttgc tccctgcacca ggcgttggct atgctgtcat cctgatgc 37200  
 ctgtacgtt gcttctacta caacgtcattc atcgcctgtt cactctacta cctcttctcc 37260  
 tccttcaccc tcaacctgac ctggaccgac tgtggccaca cctggaaacag ccccaactgt 37320  
 accgacccca agctcctcaa tggctccgtg ctggcaacc acaccaagta ctccaagtac 37380  
 aagttcacgc cggcagccga gttttatgag taagtcacag acccccttgc ctggccctgt 37440  
 tgaggccagt gcttggatg acctgagcca aacactaagg aaagtccacag accaaggaga 37500  
 cgcacgtccgt caggatatta atgtttactg agcagccact ggcctgatgc tgggtgagag 37560  
 gctgaggaca cggccacggc gaggttagtt gagaagctt cttcttgggg cagggaaagt 37620  
 gaggccggca agataataca caaataaaaca ggttaaggag tgagaatgtt ttagagtgt 37680  
 tgmmcttcag ggaatgcaac actttctggg gtatgtact gctcttaaag aactgaaacc 37740  
 aggtatgtgg gaaaaatcaa tcatggaggg aaaagaacgg ttgcgtgggt agtcaggaaa 37800  
 ggcctctctg aggaggtgac ataggaactg atgatgtcag agaagggaaag agctgggct 37860  
 ccagggcagg cgatgagctg caggttgaac ccgagttgtat tgaccctgca agctgttagtc 37920  
 tgactcacccttggctgtc tccctctggaa gttcccatgg gggacataa tcagagctt 37980  
 gagaaaaattc aagaagccgg aagcaggcca gctgtatgca gctctgagaa attatttgg 38040  
 ccatgtgtc acgagaagca ctggccattt gtcaagaca gaatatcatt taaaaaaaaa 38100  
 aactttatg ttgaaatacc gttatacatt aaaagtagta aaaatagtc atataccat 38160  
 caccctgtt cccctaattt tgacaactt cataaccatg gtctgagttt gaaaccggaa 38220  
 aattaacatt gatacactt tagtaacaa gctgcagacc ttacttgaat ttccaccaatt 38280  
 ttcccactca ttttttttcc aggtatttttt tagttttttt tttttttt tttttttt 38340  
 ttgctcttcc ttgattttca tgacccttgc acttggaaaag tacggtcagt tactttgt 38400  
 aatattgtt tgatgttttca ttgttttttca tttttttt tttttttt tttttttt 38460  
 cgtgattacc cttaggaatga tgctgtggcc tcctcagtgc attccatcag ggggtgggaa 38520  
 gacatgtgt caatatctt ttacttgc tgtaacccctt gacacttgg ttaaggtgg 38580  
 gactgccagc ctcctccgtt gtagagagag ttatttccct tttttttaa atgtgtctt 38640  
 taaggaeata eactgaattt atgeaaatgtt ctgttttccctt atcataactt tttttttt 38700  
 tcttagcatt tttttttt tttttttt tttttttt tttttttt tttttttt 38760  
 ataatttccctt atttccatca tttttttt tttttttt tttttttt tttttttt 38820  
 agtctcggtc tttttttt gctggagtgc agtggcacca tttttttt tttttttt 38880  
 cacttccac atttaaatgtt ttgttttttca tttttttt tttttttt tttttttt 38940  
 gtgcaccacc atgcctggct aattttttttt tttttttt tttttttt tttttttt 39000  
 ggccaggctg gtctcaaact cttggccatca ggtgtatccac ccattttggc cttccaaagt 39060  
 gctgggatta caggcgttag ccaccacccc agcttcatcat ttgtttttt tttttttt 39120  
 ttcttcttta aggaagaattt gtccttcttcc ccctgtttt tttttttt tttttttt 39180  
 ttatattcattt atgggcttccctt ggtatattttt tttttttt tttttttt tttttttt 39240  
 attgttgcgtt tttttttt tttttttt tttttttt tttttttt tttttttt 39300  
 gtaggttgcgtt acatgggtac attgtatgtat gctgaggtttt ggggtgtgt tttttttt 39360  
 acccaggtaa tgacatgtat acccaatagg tacttttgc actcttgc tttttttt 39420  
 ctcaactccctc actcttgcgtt tttttttt tttttttt tttttttt tttttttt 39480

ctcaatattt	agcttccact	tataaggtaag	aacatgcagt	atttggtttt	ctgttcctgg	39540
attaattttac	ttaggataat	ggcctccagc	tacatccatg	tccctgcaaa	ggacatgatt	39600
ttgtcccttt	tgtggctgca	tattattcca	tggtacatat	gtaccacatt	ttctttttct	39660
ttttcttttt	tttttgaga	ccgagtctct	ctctgtcaact	caggctggag	tgcagtggtg	39720
tgtatctcgcc	tcactgcaac	ctctgtgtcc	caggttcaag	tgattctct	gcctcagcct	39780
cctgagtagc	tgggattaca	ggcacccacc	acaacgcctg	gctaattttt	gaatttttag	39840
tagagacagg	gttccaccaat	gttggctagg	ctggtctcaa	actcctgacc	tcaggtgatc	39900
cacctgcctt	ggcctcccaa	agtgtggga	ttacaggcat	gagccattgc	acccggccac	39960
cacattttct	ttatccaatc	catcattgtat	gggcacctag	gttcatgaca	tgtctttgtc	40020
attttgagta	gggctgcaat	gaacatccac	gcbcagggtgt	ctttttggta	aatgattca	40080
tcttcctttg	gttagatgcc	cagtagtggg	attgctgggt	cgaatggtg	ttcttatttt	40140
agttcttaga	aaaatctcca	aactgttttc	cacattggct	taactaattt	acattcccac	40200
caacagtgt	taagcattcc	ctttctcggy	cagcctgccc	agcatctgtt	attttttga	40260
ttttttaaat	aatagccatt	ctgttgggtg	tgagcttata	accatcatta	ttaattttgt	40320
ggcttccctg	aatcctctca	gcctctactt	catccattta	tgtccttgag	gagggcgatg	40380
actgacttgt	tttcagccac	ctgattttaa	atgtttgcat	agcactctgt	tcacaatgt	40440
gcatcoattg	tcttcatccc	tcaggcgtgg	gtcaatttca	tttttatcaat	ccctacacaa	40500
acatgotagc	aggttaagcag	aaagtacctg	atacaacttg	tggggcagac	aggatagatt	40560
ccaccagaac	tccaccctca	ggcattcat	ggtctagagc	agaggtcccc	aaactttct	40620
gcttaagatc	atagagtaaa	tattgcagaa	tttgcaggcc	acatatgtc	ctgttgcatalog	40680
ttctttgttt	tattttacct	ctggaaagta	<u>aaaccatttct</u>	tagctcacag	gtcgtaaccta	40740
aacagttccat	agctcagatt	tggctgggg	gccgtgggt	gctgattctt	ggcctagtgc	40800
aagattttcc	aataaaactt	ccgcctatga	tagaaatggt	ctatatctgt	gcaatccacc	40860
agagtaccca	cttgcacacag	gtgggttaccg	agcagttgaa	atgtggctag	tgtactgtat	40920
gagatataatt	tctaatttaa	tttaattta	tttacettta	aatagacatg	tgtggccagt	40980
tgctactgt	ttgggcagtg	aaaaaaagtg	tggaaaaaaaa	aaacatattc	acaaaacaaca	41040
aaacttttag	gctctcttcc	ttcagtccta	tggattcccc	aagcccagaa	cctgggaatg	41100
agtccagatt	atctggagat	tggggttatc	ctgggaccaa	cttttccct	gccatcttgg	41160
tgccagcagg	ccagggggat	ttagtttgg	tgaaagagac	ctctggaaag	tctactgcct	41220
cctggggctc	aggggagtc	gtgttctcag	gatccagggaa	ataccctcaa	tggttcaetg	41280
cagagaattt	gctaagggtc	ctgtacctgc	atccacctgt	ctccatccat	gattcccattg	41340
gacttctaacc	aggcatatgt	aaaaattatg	tgttttagaa	tttttcttgg	agagggcttg	41400
cagttgtcgt	caaattctca	aataccctcg	cagccotccc	agaggatctg	aatactgct	41460
gtcaactgaac	atcagcatct	gctgttggaa	acctgttcttc	ctcaccatca	cattaatagc	41520
taaccttta	ccatgtgtat	gaggttttct	gctaacttcc	tcctatgtat	tattttattt	41580
taagccttac	ccacctaatt	aggttttgt	aactcttata	ctcatcacac	tcttggggag	41640
gcttcatttc	acagttgaga	caatacagtc	cacaaccaca	caactattac	tgcacagagc	41700
caagattttgg	accagccag	tgtcatttg	caaaaacctg	agagtgcgca	tctccattt	41760
tgccaccgtag	gagcttaccc	ctcctcactc	taaccccage	cctgtctggc	agggaaactt	41820
cacagcatgc	acccttaacc	tctgtgttat	gttggctct	accattata	catgtttgtt	41880
attatgcaga	aatattgtca	tggtcacaca	tcacattttac	ccagcttgg	ttgtatttca	41940
gccatagttc	aaagcaccct	ttctataacta	cattttatc	ctgaccactg	tggtataaga	42000
ttatttttat	gaatggggaaa	acaggcaca	atcagtaagt	gacttgcgt	aggtcataga	42060
gtttataagt	ggcattaaaa	gtctattttgg	atccaggcag	tctatctcca	aagcccaagc	42120
tcttagccca	gggttcaaaa	ccttgactgc	acatcagaat	cacctggaga	gcatggatgc	42180
ctggatttcta	catccagaga	ttctgttattc	attggtccgg	gtacaaccag	ggcatagaaaa	42240
tttccatcatag	tagctcccccc	tgcaatttcta	acatccagcc	aacgttggaa	gcccttggtt	42300
acacactgcg	cttttctgtc	ttggagtagg	actcctactg	gaatcaggt	gacatctcta	42360
tagactcatg	tcatggaaaa	tcttagggct	ctttcaactct	tctgaggagg	agtatggcct	42420
cagaaaatcc	ccggaaacccatc	agagagcttg	caggtgggggg	tttttaggeet	ttctgtcttta	42480
tgaacatgg	ttggggggga	aggtggtaaa	gatagttggag	cagagtgcgt	ccgacacatg	42540
tgattgttg	caccctctcc	ccctcatct	cccataaagg	aaaaagcatg	atttttcttt	42600
ttgctctcgg	caacccttgt	tttacaaatt	aaaatgggaa	atgatagctt	tgcctctagt	42660
ccagtttagca	tttgattctt	ccgtgtatgt	cttcatggct	agtatgtcgg	ccccagcaga	42720
ggccccccagca	gagacaccca	gccagaggga	gaggtgagat	aggttttgag	accctactta	42780
ctttaattac	agccctaagc	ttccctccagg	ctcagctata	aggagagttgg	tggggaaaaga	42840
ttgcacatctc	aggctgaaat	gttgggggg	tgcaggtaga	actgaatgca	gagttgtttt	42900
ttgttttgtt	gtttgtttgt	ttgttttaaa	aaagacgggg	tcttgccttg	tcacccagtg	42960
gcacagttctc	ggctcaatgc	agccttgacc	tcccaggctc	aagtaatct	cccacccatcg	43020
catcccaagt	agctgggact	ataagcatgt	accaccacgc	ctggcttagt	tttttatattt	43080
ttttagtaga	tggggtttca	tcatgtttca	caggctggtc	ttgaactctt	gggtcaggt	43140
gatccacccca	cctccatctc	ccaaagtgtat	gggattacag	gtgtgagcca	cctcaccgg	43200
cctacagggc	ttattttagg	agccttctgc	cctacagatc	ttccctcttt	ttttctcttc	43260

cttaacccctc cctccactaa ccatgcaaac cttcattgct accatcagcc aagcaactgag 43320  
 gatctcctca catccaaatc ccatttaatc ttcacagtcc atggaggtag aaattattcc 43380  
 cattttacag ataagagagt gtaggctccg gttttagta agtggcagag ctgggagtgc 43440  
 aggggcctct gcaagtagat aggagttctt ctcatgtgc ctttgcctt tctggcctgg 43500  
 agcctgcctc tgtgctttgt aatgcacagc actgtcatca gtcgcctcg gactttttt 43560  
 tttaatggcg tgatgccctt ttgtctaaat gtttctgctt gaaaaacatc ccctcaactc 43620  
 agtttgggga cccagtgagt gggactccta gtgccaaccc tgaggaaata gaaaattttt 43680  
 tctcttctg ccaacccctg gccaattttt gttaccatcc ttttactcatt taggctgatg 43740  
 gactgagcat atcattcaag ggaacaaaac tgctattctc cccaggctcc aggcctgaag 43800  
 ccaagcagcc ccacagctaa aagaaaactct gcagctctgt aactttatgt gtaaaaaggcc 43860  
 acctttggtg aacatgtgcc tggcaataga aaacttccac cccatgcggg tccctggtga 43920  
 ggaagaaaag tctccctcca gcctagtatt aatcatctgt gctaaatatac aagtgagaaa 43980  
 tttagctttt tttagtgtta gacttcggaa agcctggaca gtacacttaa cgatgattca 44040  
 ttttcattaa acttctggaa aactaaaact gacgtaagtt tcttgtacta aaccccaagg 44100  
 tttggcctg ctgggggaaag gaggtgcatt ttcatttgat tttcttggtt gtaagcttgg 44160  
 gagtccagat cttttcactt atgaaatacc tagacaacct ctacaacctt gaaagtggac 44220  
 tttgaatgca tgggacatca gctgggcctg ttgggggca tttcaaccat gagattggac 44280  
 accagaggca ttttgcaag tttcaggggca aggtgattt gttccatgcc ttttattcc 44340  
 cattattttg atagtcaagt caaccaaatg acaattgaca caattcaaca cctgtcccat 44400  
 aaaggcacag gaagaagcgg aattaagcat cagatagggt cagtagatgc ctctgggtt 44460  
 cttttttctt tttttttttt tttttttttag gcaaggattctc actctgtcact ccaggctgg 44520  
 gggcaatggc tcaatcttgg ctattgcaat ctccacccctc caggttcaag tgattctct 44580  
 gcctcagctt cccaaatgtc tggactaca ggtgtgtgcc accacaccca gctaattttt 44640  
 gtatTTTtag cagagaggcg gtttccattt gttgaccaga ctgatgtgga actctgtatc 44700  
 tcaagtgtatc caccggccctt ggcctcccaa catgctggga ttgaaggcgt gaggcaccac 44760  
 acccagectg gtcctctgtc tttttaaata tgcgtacgccc ctgcccaccccttccctt 44820  
 ttttctctct ctcttaggac atagcagagg ggtctaaatgtc aggggattttt ttttagtttag 44880  
 gactaacagg atgagaaggt agccaggcag acaaatttag gtcggacgtg tgttctggc 44940  
 gaaggaacag aaggccccaa ggcccagagc catggatgca ccctataact ggggactgac 45000  
 aagtagctt gtcgtctgg ggtgaaaggc aggtgtggc aaggccaggg atgaacttgg 45060  
 cacggatgg actgtggaaag gcctcagattt ctgagagact ttcattgtt tcctccggac 45120  
 ctcgtatctt tcgactttt cgggtggatg attctttgtt gggggacagg ggtgcacact 45180  
 gtcttggta tctgtatgtt ttagcacta gcaaggatccc tggcctctac cctctagata 45240  
 ccagcagcat ctccctccctc tccagatgtt acaacaaaaa atatctctt agacatgcca 45300  
 aatgcctctg gatggcaggg gcaaaatgtc ctccagtgat aaccactgtt ttaggtgcta 45360  
 agaaggctctt gaggctttgg aggaggaga gttggcaagggt tagaacagca ctttggatgg 45420  
 atggttctgc agtggcacag acagtggatt taagggggct gacaggaggc agagagactg 45480  
 ggtttggag agggtgggag tcatttacaa tagctctggc aggacagtgtt attagtcagg 45540  
 gttctctaga gggacagact aatgatatacg atctcatatg agtttattaa ggagtatcga 45600  
 ctcacacatgat aacaaatgtt tgccccacaa taggtgtct gcaagctgag gagcaaggaa 45660  
 gccagtc当地 gtc当地aaagc tgaagaaactt ggaatccgat gttcgagggt agcaagcatc 45720  
 cagcatggga gtaagatgca ggcagaaga ctaaaccagt ctatgttcc catgttcttc 45780  
 tgcctgtt tgcctctggc tcaactggcag ctgactagat ggtgcccacc cagactgagg 45840  
 gtgggctgc ctttccgat tcaactgtt aaatgttaat ctcccttggc aacacactcc 45900  
 cagacacacc caggaacact acttgtcattt cttcaatcca atcaagttga cactcaatata 45960  
 taaccatcac agacagaatg tgggtctggc ctgggatgtg gacagtgggg gtgggggttag 46020  
 agggagcaac caagagacag gattagcggg gaccagacat gcaactgtat tgcattggg 46080  
 agatgtgca gggtgagatg ttaaggccac aacagctggc ctgggagctg caggatggg 46140  
 agccattctg gggagggggc attggctctgg gtagacctt gtagacccacc caactctgt 46200  
 cattcattca cgcattgttca cattttttttt cccattttttt cccattttttt cccattttttt 46260  
 cctccctgtca gctttctggc cagcagagaa ggcacccgtcc accttcacag cggagtctcc 46320  
 ccagccgacc ccctctactg agtttctgg gtagcccttga ctctcttgc gacacccgt 46380  
 gctcccttggaa gccttagact caaaatataat gatcattata attaccattt attgaggatt 46440  
 tcctgggtat tattatctga tattctgtaa ctcagccctc atcacagccc ttttactgaa 46500  
 aagagaaaaga ctcagtgtat gggaaatgtt acacgacta ctgtccctt gctgtgtatc 46560  
 cccagggggc tggagccatc acctgtttt ccacagccat gccaccagcc cccggcacac 46620  
 tgcctggctc agagcagagg tgcagagaga gtttggaa tgcgtgaaat gattcgggtc 46680  
 acacaggatc tggtggttaag ggcttagatg ggaagccagg tctgtctgac cccagagctc 46740  
 agacaatttc tggccacat ttttctgtt tccttcataat ttttcaaat aacatacatc 46800  
 tattttgagt ggataaaatga tgaaagagtg aatgaaacag catcgctgtt ggttccagc 46860  
 ctttcttca ctcgtctggaa aacaaatttt aattccattacc caagggttaag ctaagtaagt 46920  
 ttccagactc agggtatatg ttttccctac aaggctggaa ttttctgtca tcattccggaa 46980  
 tgattccagc aagggtgtc atctgcctt ggcagacaga caattgtatc tatccccctgc 47040



caagggcctc acgacaaaagt ctagagatac tatcaacatg cccttgataa atcttgaatc 50880  
 ttgacctaaa tcttcatgca aatgttgcatt cctactctgg aatatgacca taaaatcaat 50940  
 aaatcccccc tctgaatttt tgagaaaaaa ggatgctcta gaagatattc agatgtatgc 51000  
 tggatttgt gtttcctcgg atacagaaaat aagtcccccc agggttccag gtgccttgg 51060  
 gagaagagca taggtttaga tgaccatgaa gggccagttcc ggagttggca ttctgaactt 51120  
 gggtgacact gtcctcctat agtcagcctc tcattgggttgg gaatattcag gaaatggctc 51180  
 ctgttattt ttagcccaag gaacatcatg ggaacaacaa ccccatttgg actctacagg 51240  
 gtctatttag aagcttgact attaaagagg atatggatgg gaaattttctt ttccagtgtt 51300  
 gtggtgagct aatgtgtgc aacaaaccac cccaaaatgt agtgactcaa aataacaacc 51360  
 attttattgt ctctcacaat tctatgggtt gattgggatc agctgggtgg ttcttctgct 51420  
 ccatgtgata tccctggac tacatggctt cactggctg gaatattcta gatgggtgc 51480  
 acacattgtc agcatttggc actagctggg agctaagttt gagctgccaa ccagagcatc 51540  
 ttgggatgtt tccatatacg ctttctatgg tgcttgggtt tccacacagca tggcggctga 51600  
 gttccaagaa catgtcccaa gcagacaagc cccagtgtatc tacaagttagc tcttccagtc 51660  
 actgcttgc tcaatttttc tattgtccca gttggccaaa caagtgttga gttaaaaccc 51720  
 accgtccata tgggaggggaa ttacacacag gttgtgatcc attggggggcc acagcgcaac 51780  
 agtctaccc tattcagggtt gtgtcaattt gggagaatcc tcatttaggca actgattttg 51840  
 gaaagggggg gtgcaccaga gttctctctg atactcttag agttcttggt catgccattt 51900  
 agagcaaaga aagttagcagg ggagcagcag ccagtagaga taaaatccat caagaactgg 51960  
 agagagaact tccatcagc atgttggggaa cacagtgtct accctaagaa agcactcaaa 52020  
 caaaatgcag accagggtt ggagaaagtc tagcgtttag caaaaccagg ataggaccac 52080  
 taacattctg atgcctggca cctagtaggt cttcagtaaa tattttattgg gtaattgaag 52140  
 gatgggtggg tatataagtt tggggaaactt cattaagtat tcttttgaat ttagttcaaa 52200  
 atatcaacat aggagaccta ctgtgtacca ggcttgcattc taataactgt gatgcaagaa 52260  
 taagacaggt tccttcttca attgcttttag tctatgtgtt ttacaggcag gttatggatc 52320  
 aaccaatgtc actagcttct tgggtctcta tccagagaac atatgtgttgc tcccttcattt 52380  
 aataaaaaacc tgggttcaca aactatgtgc actattatat atcttgcattt ttttaatct 52440  
 taacttacc ttgaagtcaa ttccacatcc agtagtcgaa ttacatttca atagaaatac 52500  
 aaactgtggg tttcaaaaact gtaattaaat cagcttaatg ggtcatcaca tacactttc 52560  
 aaaaatgaaa aagtctagat aataagagtt cattgcacaa gtaaaagtaag agctgtttt 52620  
 tgggattttt gtttcagttt cagcaatctc taagtttatg ttagttttgtt cttgatattt 52680  
 aaggcatttc tttagcctgag ttgtggtcaa aaagtgtgag atgctgcattt agtggagaaa 52740  
 ggaagcttt tcaactgaaa gtgtctccaa agaccataga gaagggtggca ttcgagctgg 52800  
 gtctacaaag tcaggtgcag gtagaggtgg ggtggaaagga agggattttt agcagaagga 52860  
 actacatgag caaaactgtt gagatgtggaa agccccaggc cagccttgc tagcactctc 52920  
 tgtgccttc ctgggtacca ggagcagagt tctcttggcc tctgcaggca cagacagaga 52980  
 ccctgagggg agacagggtt caaccctgtt aattgcagaa gatatatgag cttaatactg 53040  
 ctctggctt tggcatagga ccaccacaaa cttcttaacat tgcaccccaa gattgggttc 53100  
 cccaatgcctt tcacccaaaga gggtagagcc tggccctgtt agtttagctt ctgagtagag 53160  
 tggagttat tttgtctgca ggcaggctga tgcaaaagag actgggagga gtaaggctga 53220  
 gcatgttcag ttcttccaa aatacacattt cagagaaggtt aatgggggc gaaccagagt 53280  
 gttacacttag gaaagcccccc atgttagaaac acaatgagag aggaatatga tccctctgt 53340  
 catgtgtcat ccgaaaccac agcccacattt ttgcataagt ccctcagtgt tctgaccact 53400  
 aagcaggcat gccacaggca gtccatggag aggagatttt tagaatgggg agtttcaattt 53460  
 agpacattac tgggtctgtt cttaattgtt ttttataaaatc tggctttaga gaaacccaaga 53520  
 gtgttgccta tttctttctt gactgaacctt ggaacaggac attgagccctt tcttagcagg 53580  
 ctccatagc ctcagagctt gctcaaatg aattgcaaat gttcataactt ccggcttgg 53640  
 caagtgaagg ttgtgtctgtt cctggcttgc tttagtgact tgattggact caattataat 53700  
 gaacagcatc attcacacat gagtgaggca tagactaaaa ttgttgcattt 53760  
 cttagttaac atcagtgcattt acccccacacc ccataaaatct ccctttttaa aatcacaaat 53820  
 tctaaatcg taaaagggtttt attaatgcag atttataatgtt gtaaaagtgcg gacatttac 53880  
 atctctgttt tcaagtcaac ctttagatgtt gtcctggca gtgttttca aactctcatg 53940  
 ggtgttaagaa tcactgaaat ggcttgcattt aactcagattt gctgggtccc tctttgagag 54000  
 agtctgattt cttttttttt ggttgcattt ttgcattttt gacaaggcacc taggtgtatgc 54060  
 tggatgtgtt ggtctatggaa gtcacccctt atcttaggcattt ccatttttcc gatgccttgg 54120  
 ttccatagcaa ggcttgcaca acttcagtgtt caagcaccc accacccccc tggcagctc 54180  
 tttcccttgc gagagcttca tcaattttttt aattcccttctt tttatggagc caaggcttc 54240  
 attttgcattt tgagccattt gcttgcattt ggttccctgg aaccacacag attatccata 54300  
 gaaataccat caggtatggaa tttaaaatgtt gtagaaagcag tgacccctt tagggactaa 54360  
 ggacatttgc caagaccaat gggctgcattt ttgcattttt gatgttgc tcaaaattgg 54420  
 accaagtctt ggttgcattt gccagagctt gtttgcattt gtagaaatgttgc agagctgaga 54480  
 agcctgggggtt ggagatgaca gagcccaagc ctttcttgc ttaccattt gtcatttc 54540  
 ggcacatttgc agcatgtgtt aactgttgcattt caaagatccca ggaatccctt tttcaacaca 54600

agatcttagg	cagctgaagt	aacacccact	gccaaattctg	agaatcttca	acaagactca	54660
gatggtttag	ctttaacac	atgggcacag	acaaaacaag	ttccctgttt	tcttgatgct	54720
tgaactata	tcagggtctc	agctcagtca	tggcctgatg	tattccttag	ggaactgaa	54780
tccatggcca	acaaacatgg	ccaatgcagg	accaccccca	ggccccatgg	gagattccct	54840
gaagtceagag	gtcaagat	ggtttctga	tgggaggagt	gtagtctcac	ctgatttgct	54900
gggctggca	ttgcagcagg	gctcgagct	ttgacatgag	ttttaggaga	ccagagcagt	54960
taggaccagt	ctcaaggaga	tgtgagagct	ccttcttg	ccttttgcca	aggcattaca	55020
cctatttgc	ccagatcagg	agactgaata	caagattgt	taacgtgagg	tcaccaggat	55080
gcaacagctt	cacttccag	ggcatgttc	cctccttatt	tgttatgcaa	tttgccttc	55140
ctgttcttgc	ctccctgaaa	gaaaacaagt	ggaaatccc	tttccataaa	gaccccttta	55200
gaacaaggga	gtgatggaga	aacaagtgg	taacatgaa	cagaggagge	tttcctgtatt	55260
ccttctgagc	ccagaagatg	tgactaccac	tatgcattt	ctcgctccca	tgctgacc	55320
gttactcatt	cattca	ttcatgcatt	tattcttga	cttagtcgtc	cactaactt	55380
ctgatttac	acttacccac	tcattcatcc	atccatccat	ccatccatct	actcaacc	55440
ccacccac	aatcatctt	tccatcctt	taaccagct	cccaatcata	atccagccat	55500
ccactcatcc	atccatattac	ctaacaatcc	aatcattcat	ctacaccact	gcccagtcca	55560
atcattcgta	caataaaacat	ttatttggac	tcacatgtgc	cgggttctgg	ggattcaggt	55620
ttgaaaaata	taggatttta	cttctaagga	gctcatgatc	tagtggaaa	gacaagtaaa	55680
gaaagaggat	aaatccccat	ccttaaacat	aagtttgaga	agcatatggc	tttattttct	55740
atatccccat	tttttgttta	gagccat	cttttagcc	tggcaaaagaa	ctttcggtt	55800
tcaagggttc	cacttcccc	tttagggat	gggaagattc	ctggggctac	gtagttccag	55860
ggatttggagg	ggtggacca	tctggcattt	aagttatagg	ccttctcatg	tttcagctga	55920
gtcctccttgc	agtctgacta	ccttgcac	agcctgattt	ttcacttggg	acacagc	55980
ctttcagcaa	ggctacccat	ggctgcctc	gcctaagtg	gtgatttctc	accttggctg	56040
cacaatttta	tcatctgggg	agctttaaaa	aaaatactca	tttcaggc	accctgtacc	56100
aactaagtca	gaaactccaa	gaataggatc	tgagctttaa	catttttacc	tataacttcc	56160
cccagggat	ttgaatgtgt	agccaagggt	gagaaggaat	agcgaggaaa	cctatataac	56220
accccatcc	ctgtctctac	cttttttcc	tgttcccca	acctggacaa	ggggatgggg	56280
tgtttctttt	tagtttggag	taatctctt	ctttgtgtgt	ttctgaataaa	ggtacgtt	56340
ctgtgtccca	catctgttcc	cactaagata	aagaatgtc	agaggttctg	ctttctgccc	56400
agccacatcc	cttccttaggc	aatgtgctt	ggaaaagaaa	tatgcttaaa	gggggtaaa	56460
gaaaaaaaaagg	aagagataaa	cataagggag	agagtggagg	agagggagat	gaggaggggg	56520
agagcaagaa	gagggaggg	ggatggaa	agagaaaaag	agaggggggg	agggagagg	56580
gggagagaga	gagagagaga	gagagagaga	gagagagaga	gagactgaga	tttctaaata	56640
tcctgcctgt	cagataggt	catgcagca	ccagtagca	tgggtgtatg	gacacaggac	56700
tgtatggggaa	agggggagagc	acaaagg	gtgtacttag	ttctgtctgg	ttcatgaacc	56760
acgcctgtat	ctaggcaatc	cttgc	gcctgtattc	atagcaacac	tcgcacaact	56820
tcaatgacag	gtacctcacc	accc	gtcttttcc	tttagagagc	tctatata	56880
ggaaagg	tcattttat	gagtcagg	tcttcttgc	aaggagtca	gagagg	56940
ttttagat	aggaggatc	tgg	aggacctag	cttgc	ggcttcatc	57000
atagtctat	ccccactgt	gctgact	accctgggtt	ctgagctt	ctagggtgt	57060
acctgtgtcc	gtttgtgtt	ctagccctgg	attctggctt	cagggcctt	cctagagct	57120
gaacttgt	catgtctt	ggtaaagg	aggtggaaa	gagcatgact	ggctccctgg	57180
gaaagggtc	tgtccccac	cagccgcca	cgggattggg	gccagagcga	ggctctcacc	57240
tgaactata	cattgccc	gtgggtgt	tcacagcc	gtgccttac	ttcg	57300
tcgtgtcct	ggtccatg	gtcacgctc	ccggagc	caatggc	aatgc	57360
tgcacatcga	cttctacc	ttgaaagagg	ccacgg	tgctcr	ccaccaag	57420
ttggccagg	cttgtgggag	ggtttcagg	agaagg	tgat	ggaaaat	57480
ctctgc	caca	aatgtc	acaggatc	tcc	ctgg	57540
teccatctg	aecaatgegg	at	gacagtctc	ataageeeae	ccatgtetgg	57600
aggcctggg	ttctgtgg	gcatctgg	gtctt	cacag	actactctt	57660
aaattccctg	tgaagagg	atgatgtt	gggac	tttgc	tttgc	57720
tccctag	cc	ttc	tctt	tact	tttgc	57780
cttgc	atc	gtat	ggat	tttgc	tttgc	57840
caactctt	cccc	ctcat	cact	cc	gtcc	57900
gtgaaagt	gtgaaat	tagtgg	cagt	cc	cc	57960
acaatcac	agg	tac	atctt	cc	cc	58020
gcctc	cac	tt	ccat	cc	cc	58080
gggttctt	gc	tc	cac	cc	cc	58140
ggatgtat	ca	at	ttat	cc	cc	58200
accggtaacc	aag	at	aa	cc	cc	58260
gacatgaatc	agc	cc	at	cc	cc	58320
ttatgc	aaa	at	gg	cc	cc	58380
ccttc	cat	gt	cc	cc	cc	

tctgtttcc cccatcagat catgctgcc tctgtttca caggcatctc tgaaatctga 58440  
 attgcaaggc tggcgccggt ggctcacgccc tctaattcca gcactttggg aggctgaggg 58500  
 gggcgatca cttgagggtca ggagttcaag accagcctgg ccaacatggg gaaaccccg 58560  
 ctctactaaa agtacaaaaaa ttagcccccc acggtgtcac gcacttgtaa tcccagccac 58620  
 tcaggatgct tgaacccagg gagtgagggt tgcagtggc caagatcatg ccactgcact 58680  
 ccagcctggg tgacagagtg agaccctgtct taaaaaaaaaaa aaaaatctga attgcagctt 58740  
 agtctgagtg tgtgaggat aattatcccc attatacaga tgaggaaaca gacagagaga 58800  
 agtgaacttg accagggtca gaacatgagg cagagaagtt aaaaaggaat tcagatctc 58860  
 aggccctccgg ccatgtgcct ttatcaccca acggattaaa tacgtaaagcc ccattggccc 58920  
 ccaaggagtc accattgtct atggcttgc taaggccctt aggaatggc ctcgccttct 58980  
 gaaaatgcca tctccgtaac tcctaagatg gccataaccc tctgttctt cccattcac 59040  
 actctagctt agaactttc attttgttaa ctttcttgc aaatcagggc atgaaattga 59100  
 gtgaatgagt tcctacaggg tgagctact cacgactacc caaggctggg agatgctaga 59160  
 gaggcccagc ctctctctgc agttgtttt tacaggatgc aggggaggga gttgccagg 59220  
 ctgcccattct ctgggtcaga ccatgtttcc tctggctcga gacatcccc agggttctc 59280  
 agccctccgg gaccagttag gtgttccagt gttgttaggaa gcagaggctg atggctttt 59340  
 tctgctgggt tcaaggatgg attgtatggc caactcagat atttttttcc ttgggggctg 59400  
 gatttggagt attgattgca tttgcccattt acaacaaatt tgacaacaac tgttacaggt 59460  
 aagattttc tcaagaattct gagaagctct aaatcctggg gattgactct tgggggtgg 59520  
 cagagaggc tctggtctgg aagccaaactc tccctggca agccaaattt tcttcttgc 59580  
 aaccatcctg ggcattcttat aaactgcgac atggccctctg agggtcctga tgaccacatt 59640  
 tcatttcagg atgcctctta aacaaatgtg aggtgtggaa ctggggaaaat tgagggttacc 59700  
 accactgaga gatgggttagt tatgacagag gagaactgtg aagatttcag tatggactct 59760  
 gtccatcaga tgcccaggca ggcagggggtg gaatatcga gctgctgagg gcctggcagg 59820  
 gtcagaagtg agactgcagg ggagacttagt actcagaaga ccatgatcta gctcagttca 59880  
 ggaagcagtc aatgtctaccc cctgctggcc cagtgctgt gggacttcag gcacaggcac 59940  
 aaatttgggtt ccactccat tacactccat ccaaggctta aggcagaatc acagtgtctt 60000  
 tggtacatga cagagtccag tgaattcata ccagcgggac aggctataagg gaggtaaagga 60060  
 aatgggggtga tcaagccccc gatagaagac aagccagtgc atggagggtga attttagatg 60120  
 agccttggag gatagttagg attatgttag cagacgtgg agtggactgc atgcactggg 60180  
 gggagaagcg ggacaacaca ggcaaattgca aggaagtggg ttgtttatgg accaatttat 60240  
 gttttttca gtagtacacct tgggactcat ggaagataaa tatataagga agttgggtc 60300  
 ttcttagcaa agcttttgc tgcaggatg aggagtggg aggacttggg gagcagccat 60360  
 ggaagggttg ttgaaggaag ctgggtactc aattccctgg caggagtaga ctctggatc 60420  
 aggctgttc atccataaagc agttagccta cttcctgcac cagtgtatgtt gaggccctgt 60480  
 atccatgtgg cagcaggagc cactgaagggg gggatggctt ttgaggctgg ggccaggctg 60540  
 caggttctat agccagccca gcagtcaaaa cacagggtt ggggtgtcaa gggacttgac 60600  
 ctcaactgtc ttcttcccccc agggatgccc tgctgaccag cagcatcaac tgtatcacca 60660  
 gcttcgtctc tgggttcgccc atcttctcca tccttggta catggcccat gaacacaagg 60720  
 tcaacattga ggatgtggcc acagaagggtg ggtggcagc ccacctggc cccagccac 60780  
 tgaggcggga gctgagaagc ccaccttatt ctggcgtca tggctcttcc gtggctgttag 60840  
 gaatactggg ttgtccatgg aggtgtccaa accacccatg tgattgactt tcctttgagg 60900  
 ttatttagtgg gcattccagg cagtcacagt ccccatgcat ttaggagaac cttcctctga 60960  
 gtcagggtgg aaggaacggg ttttggactg tctctctgtt accagccctg ggctaagcac 61020  
 ttgacatacc tccacttagt tctcacaagg ctggcggca agtgtcaata gactcaattt 61080  
 acgaatggga agactgagat gcaagctaaa tacattgtct ggcgtcaccc agcttagtgag 61140  
 caatttgtca atagtattca cacccttcaaatccagtc tggagcttgc tgccttccct 61200  
 gcagcttccc atatccctt ggcacacag aagctgagac ctggggaaagg gctacctcta 61260  
 atgcactccg aggaccccaa gctttagtga gtaagagtgg atcccttata gagtatagta 61320  
 ggtgggggttt geageatgtt gctgttaget gtcaggeag gaaactgetc tecagactgg 61380  
 ctgttggggg tcaacctctc cgatgcacag gtgagctgtt agttcatgtt gatttcatct 61440  
 gttatctcta aaccctgtt ctgtccggcc acacatgacc kaacaattgg gccccccagat 61500  
 actccctat catgtgcagc tcagaccaat ggtttcagcc attgtatggg tccctgtatgt 61560  
 ttcttacagg agctggcttca gtgttcatcc tgcataccaga ggccattttt accctgtctg 61620  
 gatctacatt ctgggctgtt gtgttttgc tcatgctctt ggcgtctggc cttgacagct 61680  
 cagtgagtga ccctgcttag gatacctatc ccccatccca ctggggcttga ccccttccc 61740  
 caacacacag tgctggccct gaagttccca ctattcaac accaggttaa cagttgtttc 61800  
 ccagaaggcc ctattnaaat tgcagacaaa aaaagtggat cctcactcaa aaagataaga 61860  
 ctttaggcca agccaaagaac cataggaacc ccttgcacat tttggaaatc caaaaagaaga 61920  
 ggcttcagat aagccagccc cacactgtcc tcttgcagg tggggaaatga ttcagaggca 61980  
 acacagataa aatcttgc tctaaacaag cattttctca ttatattttt ttatcaataa 62040  
 tcaataggcc aggcatggtg gctcactctt ataatccctt ggcgtgtggaa ggctgagggt 62100  
 gaaggattgc ttgaggccag gatgtcaaga ccagactggg caacataggg agaccccccatt 62160

ctctataaaa aatttaaaaa attagctgag catgggtttg tatgcctgta gccctagcta 62220  
 ctcaggaggc tgaggtggga ggatcacatg agcccaggag ttggaggctg cagttagcta 62280  
 tgattatacc actgcacttc aacctggta gagttagacc tggtttctaa aaaacaccc 62340  
 aaaacccaaa cgaacaaaca aaaacatttt gaaccaggta gtttcttaca tccttttatt 62400  
 ttatccaaat gtaagattgg atttactgac atctttttaa atctatgtct acccttagta 62460  
 cctcatgcct ggacatttg aaaaaatctt atggaaggc tggcaacttg tttccctccc 62520  
 actgccttt gcttcagtc agcagatctg ccaggaggc ggagttgaga aggatttga 62580  
 ggctgcttct gggcttataa tgaagaatac tgattttgat taacagtgtc tgccaagagg 62640  
 aggggagagg agaggagaat ggtagctgc attcttcttgc tctgcctca cattgtcctc 62700  
 ataaggaaagc aatctgcoca tagcagtggg atatgagacc ctttcagact ctaagagtct 62760  
 ggagttgaa gtgaccactt tgcttgcata tttagaaaggc agccaaaaat ctttatcaa 62820  
 aactgctgcc tgaagttccc atcactagaa gctcttctgc aggagttgtt tccagagaca 62880  
 cttattgaca tgtaaacgta tgacatgggt tttgggttt tactgcttac actccactat 62940  
 cagcttatct gtacccactc aggctgagtg agtgtcagga gacaggtage tggcgtag 63000  
 gggagacagg tggacttacc accctcacc tctccacgt agtttcttag ttcttagttt 63060  
 gcctgagaac aggacagaaa tgtgacgaga ggtggggaa ggaaggacgt gctgatttct 63120  
 cgagagaggc aaggcagcct acatgagtcc tgggctgcag gaggctctag gaaccctggg 63180  
 gcctgagact gaggtccagg gagaccctaa ttccctgcacc ccacccctcc tggccctcc 63240  
 cagatgggg gcatggaggc tgcacatcacr ggcctggcag atgacttcca ggtctgaag 63300  
 cgacaccgg aactcttccac atttggcgtc acctttagca ctttcccttc cgcctgttc 63360  
 tgcataacca aggtgagtag gggctgggt ctgggtcacc tggggccctc tgaggccgca 63420  
 tttcaataaa gtcaaacatt cctagccta gaactggggc ttagctcagg gagaacaatg 63480  
 caggatccag catcctcaat tcagcggcct gaccctact ggttaggccc agtagtctt 63540  
 ttccatctct gatgctgagg attccattca gccctgttta ttgccttatt gacttgaggg 63600  
 gcagcaaaag tccctttgga acccatctaa ctctttattt gctgaaaactg aggtgactgt 63660  
 aacgtcaata caacagcacc acagccctat gccctgggtt ttcaaataga gctccgagca 63720  
 agtggacag gggcaggta agagttgaca gacacaacaa ttagttccca cgtttgacca 63780  
 aagagggcct ttggccttct tctctccctg tgccagggtg gaatttacgt cttgaccctc 63840  
 ctggacacct ttgctgcggg cacccatcacc tttttctgt tccctatggta agccatcgga 63900  
 gtttccttgtt ttatggat gtgagtgtgt ggaaaagctt cagctccctg ttccctctaga 63960  
 atcctgcacc tggaggtgtg cagggaggcc ttccatttcc aggacagcca cctaaaattc 64020  
 cagagtccag caagtcaccc attgggaaca aatctyaatc ctggctcat ctttggatga 64080  
 acctgcctt aacaggaggc tgcaaaggcc cctgggcattc aactcttac agaggaaccc 64140  
 ttagaaaaat gctgaccctt aagtcatata attcatccta ccagggggtt gtcagattt 64200  
 gcaaacacaa cacgggttgc ctgtttaaac ttgaatttca gataaataac aaataattat 64260  
 ttagtataag tatagtctcaa atattgcattt ggapataactt acccttattt ttttcttatt 64320  
 ttatgtaaaa ttcaaactt actgggtatc ttgtatttt tctggcaaac ttattctgga 64380  
 acagaactga gagaatattt tacaaaaccct taaatgtgtt aattgtttgt ttttccccac 64440  
 caagtgtcac accaacatgt tagtctctt ctcactctgc tgccactcag aaagagattc 64500  
 aatggaaagag tctggcctt cctatcagat tgaagtctgg gaatgtgctg tatgcatagt 64560  
 tgggttattt ttcaagagca gagaatccaa gagggaaagag ctgggctttg ggtcaggcc 64620  
 aactggctct ggaatttggg gcaaattcccc tcacccctttt gagccctaggt ttccctctga 64680  
 caggtgaattt ggggtgacac atgaaagggg atactgtctt agagtttgc ctctccctca 64740  
 ttctgcattt caaaaggccc atccccggat ctcccttagtt ccakkkkakc agcatcttgc 64800  
 ctcactgccc tgctctccac ctggggccag aacctcatgg gaggacctgg ccctggctat 64860  
 catggggccc atggtaacag gcttgcctt ggtgtcaca ggagtggacca ggttcagcaa 64920  
 cgacatccag cagatgtatgg ggttcaggcc gggcttatac tggagactgt gctggaagtt 64980  
 cgtcagtcct gccttccttc tgggtgtgt ggtctgcagg gaagycctgc atgtggggag 65040  
 ggggctgtgtt ccaggatgga gctgggttag gatatttgc tcttagggga ggaggctctg 65100  
 ggtccagag gcccctggtca tgcaaggggg tcaacttggga tgcttggccc tggataac 65160  
 gtggtagaca tccacccatc tagggggttc tccagctggg gccaggtccc cggggctgt 65220  
 tatgccttctt ccaaagtccac cttctgttctt tcccttttc ttgctccctg tcataatctgc 65280  
 ctcccttttga ttatcaactt cttcttgcattt tcccttcttgc tttccatctt cttctctttt 65340  
 tccactccctt ctttattttcc tcccttgc tttccatctt tcccttgc tttctgttcc tttcttccctt 65400  
 accctttcttcc caccctccctt tcccttgc tttccatctt tcccttgc tttctgttcc tttcttccctt 65460  
 tttcttccctt ctctgcctt ctcttagttcg tgggtgtgtt cagcatcattt aactcaagg 65520  
 cactcacca cgacgactac atcttcccgcc tccctggccaa ctgggtgggg tggggcatcg 65580  
 ccctgttccctc catggtcctt gttccatctt acgtcatctt taagttccctc agcacgcagg 65640  
 gcttccttgc ggaggtgagc tctggtcctt cccaggggaa caggggtggga gggggctgag 65700  
 ggggaagacg ggacgactctt catttcgtt ggggtgggg aagggacaga aggacacaga 65760  
 cactagggtc aaacggaccc acctcattgg ccaggttattt ttcccccattt agcctcagtt 65820  
 tccacatctg tatattgagg ataatattac gtacccaaa acaaaaaaaa agtacttagc 65880  
 acagtgtctg ggcacagaga ggtgttctgtt acatgttact tgggggttagt ctcagccctg 65940

gagttcacta aggattgatt agacagactg cctgaaccca gctcaactgtg atgtctgtg 66000  
 ctaagatttgc tcatttccca agatgtccca gctctccca tccaagccca ctgtgatctg 66060  
 ctccttctgg tttcacctg cctcttcca gaacctaata atctgatcatc cctaaaccag 66120  
 agatttctga actatttctt tctatgcatt ctgcataatat gtcaatattt atacatatgt 66180  
 atataatgtac atgtgtgtgt atatacatac atgtatatac acacacacac acacatttat 66240  
 ataaaatattt aggaaactgc ccttatttctt gaaattatgt cactcctatt tgattaaaat 66300  
 atccttctt tcataaacta atagtataaa tctttcctc atatccttac tttacaaaac 66360  
 aaagatgatt tcatttcctt attcccttattt ccactcactt ggaaggattt tattgggacg 66420  
 cagatatacg ctggtagta ttgcaggcac tagacaaaaa ttcctgcctt tatggagttc 66480  
 acattctaat caagggcagg taaacaaaat gaggatggaa gcacatcctt ggagccacaa 66540  
 gaaaaactcaa ggaaggggagt aacagacaga cagtccccat cctcatttctt tgtgatacat 66600  
 ttcctgtctg taaaatccctt aagtctggtt ccgggtcaact gggaggatca gtgttcagtg 66660  
 acctcatttctt agacatggga actgggacct gagccttcta ttcttcacac tttgggagtg 66720  
 gagaggcttc ctgttaccag tgatcaattt ttggttcaga acacatggct tgagacccca 66780  
 caagtgcctc cactgcagga gggcttctt gattccctgc agggccagag gcttccttcc 66840  
 acactctccc tgcgtcaattt tcttcatttctt gggtctaaga tgatgtgtgt gtttggatcat 66900  
 tgccagttccc ttacatgggc ggttaagctt cccaaatggtag agactgtgtg ggttccttcc 66960  
 aagtctggat ccataggggcc tagccccatg tctgaccaca gtaggcagat caagaaacag 67020  
 tgtctggatg agtgaacttca tggaccatg ccacaaacaa agctggaggt gtcttgcata 67080  
 gacccaaat gctatccatg tggggctgca ggtacaaaata gcaagggtggcc ctcatctgsr 67140  
 ggtgcagcca ggctgccaga agggtgttcccttggccaaaggcc tggggcaagc tgaggccttcc 67200  
 ttccttcag agactggccctt atggcatcac gccagagaac gaggaccacc tggggctca 67260  
 gagggacatc agacagttcc aggtgggtga agcctagacc cctggggatgg agattacaag 67320  
 ggcggggccctt ggctgttccctt tgctgtgyac tggccaaaggcc tagacatcac atccagaaaa 67380  
 cccagaaaacc cagtgtgagc tgcctttcccttggccat cctggggatgg gggacaggga 67440  
 ggctcacctt gagcccatgg cctcaggctt gccctgtgac tttggggagg ttctgtgccc 67500  
 ctttctggcc ctctgtgaca attagggaaat caacttgcac gttcccttgag gtccgtgaag 67560  
 gaaggggggtg tttttctgca ttctcttcttgc tccctgtcc tccctgtcc cccggccage tggcccttgc 67620  
 tcctttctgt cccacccatg tcatcaagtc ctcgctgtct ttctctgtcag ttgcaacact 67680  
 ggctggccat ctgagcctgc ctggaggaga aggaggaacc cccatgccaat gttccagggtc 67740  
 acaggccatcc tgcgtccatc caccctggac accatcttgg gattccctccc ctggaaagttg 67800  
 tcctttctgtca tccctcttgc ttttcccttgc tccctgtcc tccctgtcc cccggccage tggcccttgc 67860  
 tcaccttctg tgcacatctggc ctgggggtggccat cttggctgaaatggggaaatggggaa 67920  
 atgacttctg ttctgtccctt gcttttttgg gggaaagtcttcc tccyacttttgg gatcctgct 67980  
 gaagcttaggt tcatgaggatc ggaatcccccc accacatttgc tctagacttttgg gggcacagga 68040  
 gttcttagtc caccaaatca gagagaggatc gggcttttgc tccatgacttccccc 68100  
 aaaaaaaaaaaaaaaa aaaaaaaacta aagaaaaat caaacaaaat ctggctgaaat ttagtggggat 68160  
 ggttggggaa ggtacataga ccctccctt gggaaagtcttcc tccyacttttgg gatcctgct 68220  
 acctcagccctt gggagtttgc ttttttttgc tctaaaatgc tctagacttttgg gggcacagga 68280  
 gagggattttgg ggttagaaatccattttacttgc tccatgacttccccc 68340  
 gtgtgtgttc tggacatcc ctccagctt tgggggtcag atggcccaaga gatatgggggg 68400  
 acaggaggaa gagggtaaat gaaccacagt gggcagggttcc taggaggatc ctgcacatc 68460  
 caagctgggtg gaggccacgt ggcaagccac atctactgag ggcctcatgt gctttgtc 68520  
 tgtaagacac ggagcccaaga aaccatctg cacttctgaa gacctgcctg gggaaacggg 68580  
 ggcaggggacc aagtggggcc tcatgtgttgc ctgcatttgc tttcaccgtg ctgtcctc ac aaggccagg 68640  
 ggggtggccaa agggagccctg acaggctgtt gtgttaattt attgttcttgc cacacctgca 68700  
 cacccttccctt ctggggatcc caccctggatg ggaccagggg tcttgagaaaa tggagagttg 68760  
 gctgcacccaa ctctcatgca ctatgtgttgc caccttggag ggcagggttgc gacaaggcgc 68820  
 ccagaaatac tctctcaatg ggagggggaga atttttggagatg tggatggaaac agtttgggtgg 68880  
 ttteagagaa ttteatggat tctacttggatc tttacttctg atacaaaaat gcaatgggtg 68940  
 ccctctgggt gtgttttagtt ttagttccgt aagagaaaatg attctctatg tgcataatttgc 69000  
 gtggcatctt tgggggggggtt ttcctgtttat ggttagatct tcttacaccc ttgttggagg 69060  
 gattcttattt ctgactgtgg gagctccctgt tgcaggatct tggggaaaaaaa taaaagaaagcc 69120  
 gctgcattcg cacgtcaaga aggtgttttgc cctcaaaatttgc ggggtttgtt gggctgggtg 69180  
 gttcctgtcat gaagaggattt atgaggggac cagggtgggg cagggtggatg gttttgtc 69240  
 ccagggtccctt gagggttccctt tgctgggtcg gggccttcag gtcattctat agataaaaaga 69300  
 gggaaaatca ggagacttttgc aatctttctg tataaaaaagg tcaatgtcaat gcctgagaca 69360  
 gcccagggtgg cagggtgttgc ggacccctgtt gaaatgttgc gcttacaaaat ggagaacaat 69420  
 cagggtcgccgg tctggggccccc attagtgtactt tttatcttc cccataaaagg taacttcttc 69480  
 cttaggtgttca ctttttttgc tttctgttttgc ttttttttgc ttttttttgc ttttttttgc 69540  
 tttgttaataa agcactttaa tgcacattac ctgcacatctg cccatgttgc actgcaggcc 69600  
 tatagttctt atctcccttgc ttcccagggttgc agagaaccaa ggccaggcat tttatgtact 69660  
 cttgctcaag gtttttttgc aactaacaga tcgagttggg cttcaatttgc acatccactg 69720

actctcagcc	cagattattt	tgaatattcc	ctgcacaata	gggttcaccc	caccaggac	69780
tgtcatttt	aaaaaaactca	ttcaaaccgc	aaaggaaaat	ttcttagcaa	aagaacaatg	69840
tgttggagga	tgggaagggg	cgagagaatg	ccatttattt	tcctctagct	ggtttccaga	69900
gaggaaatta	tttagctgct	ctctttgat	gaaaataatc	actctttgga	atagttggat	69960
gtgaaaagct	gagtctactt	ggttgaaatg	agagcaaca	gtcagcaaag	cctttgcat	70020
tagagcaggg	tctgtctcc	gagagagcct	gccatttcct	cttgcacatc	tgcatgtggc	70080
cccttctgcc	tccagacatt	tgtccccggg	tgaatcgag	atgtgggtct	agctaaccac	70140
acaccaaacc	aacgcagttg	tgctgcctt	cgccgaaatg	tgctcctgta	atctggatg	70200
ggaaccttggc	tccaagcctg	ggtccccctgg	gagggtgggg	gtacccagaa	agcccttgg	70260
agttctcggt	gagggtcttg	gagatcattt	gggtttacct	ttccacccac	atthaatgg	70320
gagagagtat	gggctttatg	ttaagtcatc	tttgacttcc	tttttgtagc	ttgtttttaa	70380
tagcagaggt	cacccgggac	aagggtgtcg	tgtactgtat	atgacacttg	acgccttgc	70440
tatTTTTCA	ggTTTTTAA	gaattattat	ttttcatgaa	atgtaaaata	tcagtttgag	70500
aacatcacat	ttacgtctac	tcaatgtcta	gttattttagc	acccacccat	tagcttcat	70560
tctagatgaa	aacgagacaa	gggagaagga	gagctaccaa	ctcttgcac	atatcctgct	70620
gaacagaaat	ccctgaagct	gccttaattc	tcaaaaggag	ttaccgctca	gctggagac	70680
agttccctgct	atatgatctg	ttttctagcc	tgcctaattgt	gagactgaag	cattcttacc	70740
aaagaatca	tttccttagta	aagaagccca	ttgaactcac	tttatttgtt	tatttccttc	70800
gaaagccacc	gaagagagaaa	aaacagagaa	ggtgtgttagt	gtggcggaaa	aagcacagca	70860
tatagttta	cagacttggg	tctgcagctg	actagctggg	tggcctgggg	atagtggctt	70920
catcttttgg	ggcttcaaga	ttctttgtct	ttaaaatcag	gggttatatac	agatcatcaa	70980
agttccatt	ccattaaaga	aaaccctgca	tgtatccata	atgtgctct	cctgttaaat	71040
ttacaatgaa	ggaaacacat	caacttaactg	taagaatttc	ccaaaatgaa	ctgatgacca	71100
gtgatctctc	tatcagagaa	atgtcagatt	tctagctcc	agaactttga	ttttcttgg	71160
cattcaatag	ttcccttttc	tcagatattt	ttcaactgat	gcccagaaaca	cttggatttt	71220
gtttttaatc	caaccctttt	gtttgaggg	tttggagggt	aacacatttt	cataccctgt	71280
gagtcccagg	atccacagct	ctgctgtgg	ctcagaagcc	actgaaacat	ttgtgaatgt	71340
gaagtcaactt	ttgggggtgcc	tgccttcatac	cctctgtctc	tctgcttccg	tgtaaataaa	71400
gactgttca	attgtgtcct	ctctgtgtca	tggactgttc	caatgtcatg	cagatttctg	71460
tgtctgatat	ggattttaaa	agttgttctc	tttgtggaat	ataagtgtac	agaataataa	71520
ataatgttc	ctgggctgtg	tatctggtag	cagagtctg	aatgctttct	tccatgaagg	71580
tggaatgcta	caaattatgt	aaggagggtg	ggtgtatcta	tgatcagtt	ccaaactagta	71640
aagaagagcg	tctggtcata	gtgacccacc	ttaaaatcaa	ataactctt	ttataaccta	71700
tggaaaagga	gatttggaaagg	agttaaatct	gtaatcttag	ctttaggatt	aacatataatt	71760
tttaaataaa	aagaggggcac	caagtgatac	caggtttagt	ttagtttagt	tttcattttct	71820
aaggctgttt	caaggagctc	agaacctcct	gttggattga	attaaataca	caatttgg	71880
catgtgtgaa	tttttctggg	gagagggtata	cattcacatt	tagaccttag	aagatctaag	71940
tctttgttt	gggaagatgt	aagctgagta	ttgtcattgt	ttggagaaga	tgtgaactta	72000
tagtaatta	tttttaatgtc	aaggcagcaa	atagatagt	ataccaatgt	aaaaggggtg	72060
ttgtcaaaata	actgttcagt	caatgtcttc	aaatatctaa	aggctgtcag	agagtgtgt	72120
gtggggccaa	gtgctgaaat	gggtccaaatg	gttaggaagtc	caggaagaca	gcttgcaga	72180
ttctaccaga	atagagaatg	ggctgttgct	ggaagtggta	actccagctc	tagagatatg	72240
caagcagata	gcaggcagtg	tctcttgggg	atgcaatgtc	aggtggaaatt	ggggggaggg	72300
aggttgcaca	acctctaaga	ttcccttccat	ttggagttcc	taggggttgtt	ttttttctt	72360
tttcttcttc	tttttttttt	tttttttttt	tttgcacagtc	ataaggctgc	cttgacagc	72420
agcacttggg	gatgcaaata	cattcatgcc	aaggacccctg	gggttaggagt	ggtttggcct	72480
cacaaattag	agttgggaag	atatcccaga	gaggctatta	tcattctgat	cattttgttt	72540
caacccagaa	ttggagttgg	gctttattat	agtgaatcaa	acagaagaca	gctgcactc	72600
tggcattccc	ttgtgcctga	cgagatctgg	taagcagtgg	tcctgtggg	ggaggggagg	72660
gaggctggc	cagagaagga	aaggcagct	gttttgggg	ggtgtatggag	aatctgggtgg	72720
cccaggcttc	caccctgtcc	cctaggctga	caacacagta	ggagaagtcg	gagcagcaca	72780
gataaggctc	accttaggca	cttagtgggc	ttctgaattt	tcccaattt	aattgcaccc	72840
catcctactt	ctggagatgg	gatagtttca	tttttatctc	ctccccaaag	gcactgatac	72900
acgttagtctc	tatctggggc	tcaattttgtt	cctctacagc	ggatcgggag	tggtcagaac	72960
taagtgttca	tgaatgggtt	tcaaaaatttt	tcagaatctt	ctgagattaa	attcaaactt	73020
ctgtttgaat	gaattttgtgc	tcatttttgg	ggaaaaagga	tccatacatt	catcaagttt	73080
tcaaataattt	aaaaccacca	agtatatatt	actttttggg	gcctctct	tctgtatgata	73140
catggcatcg	gtctctgccc	ttcaccccaa	actaaatgag	gatgacaata	gaccttattt	73200
ctgaatctca	gtcaccggc	attatgtga	ctttgttttt	ttgtctgttt	gtttctgaga	73260
cagggtctca	ctgtgtcggc	caggctggag	tacagtggtg	cgatgacagc	tcacagcagt	73320
cttgacactcc	tgggctcaaa	gtgatcctcc	cgccctcagcc	tcctgagtag	atgggattat	73380
aagtgcacatc	caccacagtt	gtctaatttt	atttttggta	gaaacagtga	ctcactagat	73440
tgcccaggct	ggtctcaaac	tcctgaccc	aagcaaacct	cctgccttag	cttcctgagt	73500

agctgggatc acagggtgcag gccactgggc ctggcttgac ttttcatatc aatcatccca 73560  
cagcaaatac ctcattttat cccgtgacaa tgagcctgca agataggcg caacaggaac 73620  
accgtgccc ctggacagat gagacaactg aggctggagc tgagaagtga cccgcctaag 73680  
gtcacgcgc tactgaaggg caaagtcaagg tcccctcatg cctgggtcaa tgctttcac 73740  
attatattca ccgcctatg gaaataaggt agagtggga ccagacaagt cctgacgggt 73800  
accacagaac tggggaaaga gactgcaggg ctataaggac ttggtcacct aacaggagct 73860  
tggtcaggg tactgggaac attgttcgt cacacagtct caaacaggac tggaggatc 73920  
aatgtgtta ggatcaatg ctgttaggga tcaatgtct gaaaaagttc tggccccca 73980  
gtgtccactt gagaccaact actctgtatg gatgattgag tcatgttggaa aagtcattg 74040  
ctaagcctt gctctccag ctgtgaaatg agaatgttgg attggatgtatc tctctaaagt 74100  
ccttctgtt tctgactcta tgagatacac tcagggagcc ggcataatg tggatggcta 74160  
attcatatga agatgtaaat gactacttt tcagggcagac agtgacagat aaagggtggg 74220  
gttgctgcct ttgttcatc ctataagtt agtgcggggc ttgtttaact atttctgtaa 74280  
aggtctctgt cacaacttct cagctgctgt ttagcatga aagtaacott atttataagt 74340  
atcagggtgt ggggttggatt tggcctgagg tctgtgttt gcagatctct gtttaggtgg 74400  
aaagagtgaa ggtctggag ttggactaga cctgggtttt agtctcagct ttaccactga 74460  
ctgctgtgaa atcttggaca agttatgtaa aacttccgaa ggctttctt tttctgaaga 74520  
gtgagaataa gattcccaca agagagttt caggaaggtg aaacaagggtg atgtacactt 74580  
acagcaactc tctggggctg cagtagctgg attcaagacc tggccatcact actccacagt 74640  
gtgaatccct gggcaagcca cataacttcc ctttgcctcc gtttatcatt cataaatggg 74700  
aaagacagta gtgaccctgt ctaggtcat ggggagaatt aatgttaat attgtattca 74760  
gaatagtacc acctacacag tttatcctt tgcataatggg gtttatcatt cataaatggg 74820  
gaatgtatat ttcttcctct catcacctct gcccatttca aaggcatccc agtaccact 74880  
gtgtttcac gaagccaaat cagtgctgt atggtgccct ctttaggat atggtgccct 74940  
atggtgccct ctttaggat atgtccttga ggacttgcata aaccacctgg gcttcctgt 75000  
ccctggcct gagtgcatac gcagaagttt aatgttataat attgtattca 75060  
ctccacagac cttgcctct gcagaacccg tcttaggctgg ccctggtctt ggctatgacc 75120  
ccattagacc actggcatgg gagatattac tcgaagagct ggcaactgtc tgggtccttgg 75180  
tggaaaggga ggagaccaga gggagactcc gcataatgc aatgttataat attgtattca 75240  
agtcctgctt atcagctacc ggctctgcca gggcataatgc aatgttataat attgtattca 75300  
cagactagca gggcatgagg gtaagggttg cctggaaatgc aatgttataat attgtattca 75360  
tccccagaga aggcccagca agggcacatc gggagactcc gcataatgc aatgttataat attgtattca 75420  
atctctgcag cagagggtat ttgttaggtg ggctgcatac cccatgcata aatgttataat attgtattca 75480  
ggctgcatac cagacccatc cccatgcata aatgttataat attgtattca 75540  
acacagcagt agcacctgtt cacagtca cccatgcata aatgttataat attgtattca 75600  
ctcgagccat tcccaggacc ctgttgcatac cccatgcata aatgttataat attgtattca 75660  
ctccctgttag tcgcctttga cccatgcata aatgttataat attgtattca 75720  
cctatcatgg ggagaaggga caggtaggg gacatgtca cccatgcata aatgttataat attgtattca 75780  
gagcattgca getctggctt gtcaatggc tgcataatgc aatgttataat attgtattca 75840  
caagatttagg ggatctgggc tccacagttt tgcataatgc aatgttataat attgtattca 75900  
gaatttggaaag gacaacaaatg cacaatgtt gtcataatgc aatgttataat attgtattca 75960  
gaggccacat cttggccaca caagccctga tgcataatgc aatgttataat attgtattca 76020  
tcagcacctt ggacaaggcc aattggctga tgcataatgc aatgttataat attgtattca 76080  
acctttgtc agttactatt ctgagtgctt gacatgtca cccatgcata aatgttataat attgtattca 76140  
gactccatga gatagcatga ttattgcata gctgaaataa ctatgttgcata aatgttataat attgtattca 76200  
gctgaaataa ctatgttgcata aatgttataat attgtattca 76260  
gtctttaacc attgtatgtc cccatgcata aatgttataat attgtattca 76320  
aggctgggtt ggacatgagt ctcctctac atctatgtca cccatgcata aatgttataat attgtattca 76380  
atactaaata aataacttat gtgtatacat cccatgcata aatgttataat attgtattca 76440  
cacacatata tggatgtatc acatatatgc cccatgcata aatgttataat attgtattca 76500  
tatatatgtt tacgtgtgtg tgcataatgc aatgttataat attgtattca 76560  
catatatata catatatata tacatata tgcataatgc aatgttataat attgtattca 76620  
tatatatata tatatacata tgcataatgc aatgttataat attgtattca 76680  
tatatatata cacatata tgcataatgc aatgttataat attgtattca 76740  
agtgcctaca atgtgatagg aagcaacaa tgcataatgc aatgttataat attgtattca 76800  
tcagtttggc cagaggctcc cttgcataatgc aatgttataat attgtattca 76860  
agccccccag tccctgtactc tctggttctt gacatgtca cccatgcata aatgttataat attgtattca 76920  
ctagccaaaa gcaaaaagat taggcacata gacatgtca cccatgcata aatgttataat attgtattca 76980  
agaaatgtaa ctatagttc ttcataatgc aatgttataat attgtattca 77040  
caatgggtca gggagaaggt gttgagcagg aagaatgttgcata aatgttataat attgtattca 77100  
agaaggactt caacaggggc ccctgcctgg tgcataatgc aatgttataat attgtattca 77160  
gctgctttaaa aaagtaataa aaaaatttgcata gacatgtca cccatgcata aatgttataat attgtattca 77220  
agcatgtgtt actcatcctc atggagaaaa gatgttgcata aatgttataat attgtattca 77280

cacctttcag	gcaggaggaa	gggggaggga	gagaaaaagg	aaaggcagaa	gacagttgag	77340
tcatcttgc	tcatgctgga	ggagcatggc	ttccccagaa	cccctccgca	gtctgcctac	77400
accccattgg	ccaaatctgt	gcaacacaga	acccgtaact	ataagagagt	ctggagaagt	77460
aagaactttt	gctgggtacg	ttgctgcctc	gaacagaatc	atggttctct	tagggagagg	77520
atgggaagga	cattgaggag	atgctgatcg	ctgcctccct	ctctgcagct	tcctcacc	77580
aggttccctc	atctgctgag	aacaagaggg	tccctgtgga	aagcacccctg	gacagaaagg	77640
ccacagataa	gggcatctat	gttctatggc	ctgatattag	ttactccctt	gggctcaagt	77700
tgtggggact	caggactcag	gtcttgca	aggaagacag	acagacctgg	ggttggcatt	77760
cacagaggca	ccactgagct	ggcaggtaga	tatgtccatt	gagcagagta	tttctgccc	77820
ttcttaggttc	cctctccctc	tccctggct	gacaggtgcg	tttagtaacaa	cgaggggaga	77880
tttctaattg	ataatatgag	cactacgacc	accaggcgc	accaacacac	acttctgctg	77940
ctaagcagag	gctgaaccca	gacccttctc	agagcctgtc	tgaatcctca	acactctctg	78000
gaaccagggg	agtaaaagc	agtttgaat	aaatgaaaag	atccatctt	ttttgttact	78060
atcatatctt	gttgcactc	attcgatcat	tctttattc	attgatcaga	atcatacatg	78120
gtcccactat	gttccagggaa	agaacaatgg	aaaacagaga	aggaatattc	ctgcccggga	78180
ggagctctca	gtctaatgg	gagaggatt	gtgtgtgtat	aacgaaacat	ttattgagca	78240
cctattgcat	gctcatggaa	agccctttag	tggctctca	tttccttcaa	ggtaaattca	78300
agtcctcagc	ctctctgtct	tcatctcacc	ccacctctct	gcaccatcac	cctacactag	78360
ctgcacataa	tccaagcaca	ccctgtctcc	ctgagcctca	gccttaggt	cttccccctc	78420
tttcatctct	ctgaacctga	ataacttctg	tttgtca	aatgatatcag	accctaaaaa	78480
atgccttcc	taacctatcc	atcaccacgt	ttgcccacatt	tatthaat	atctttcagg	78540
ggaccagcaa	attttgagac	aggaggcaat	aactgcatt	tcatattt	atgcctgg	78600
cttagacaag	gatctggcac	atgtaagcct	taagggatg	gttgggtt	tagagatgaa	78660
tgagacaagg	tcatctcata	accttagcaga	gaaatcatgc	acagagctcc	atgtggggag	78720
atcagagagg	gtccccata	gcaggtgg	ctagagttgc	gtcttagg	aattccaggt	78780
catgagaaca	gtgaaagtgg	cagcacagag	gcatgaatca	gtagcagaga	gtacaatatc	78840
tacagaaaatt	tgcagggtcc	aagcagaggg	gctgtagaag	agcataaaat	tcagaatatg	78900
gagacatct	gtgctgagat	aaggcagtgg	aacttttcc	agaaggcaaa	agggagccaa	78960
gggtttttaga	tggttggaaat	gatataatca	taattgggt	tagatgg	attagtgaac	79020
gattgtgg	tagcgaacta	cccccaaact	tataaaagaca	accatgtatt	taactcgtaa	79080
atctgtggcc	catctagggaa	gttctgcaga	tactgacca	gctccgcac	ttgattgg	79140
ttcctcatgt	gtctgtagat	ggcaggccag	ttggaaact	gctgtctta	gatgcctcc	79200
cctgggatgt	tttccttcca	tgcagtgtct	cattccccag	ggaaatcatg	tgggttcaag	79260
ggagtgagt	gacatgagta	aggcctctt	aggccttgc	tgagaactgg	ctcaggcacc	79320
gtcacgtctg	ccatacatat	ttttgaaacc	acatgtaaaa	gctgatata	agagaggtga	79380
aaacaattgt	ggccattcag	atggctact	ctgcctctgt	agtgtggaga	gtagtgtat	79440
agagaccaat	taggaatctt	acaccagccc	aggtggagg	caaagggtgg	gtttaaaaca	79500
aatattttat	ttttttaat	tcaaattttaa	cttttaatt	acatatagta	ttaggttctt	79560
tcaaattgtaa	ttgcagtttt	tgtactgttg	aatgtgct	tttgatatt	gaatacatcc	79620
ttaaataaaat	gtgggatagc	tatacatgt	ttaatgcac	atatttcgt	ttaattttt	79680
tgctaattgt	tttattactt	ctgttttattt	catatttatt	ttaggctat	gaaataatgt	79740
tagacaaaaaa	gaaaatttga	atgatttttt	tttagttgaa	aatgggtt	aaagcagtgg	79800
agacaactca	caacatcaac	aacacatttg	gcccaggaac	tgtaatgaa	catacggtgc	79860
agtgggtgg	caagaagttt	tgcaaaggag	acatgaacct	tgaagaccag	gagtgtat	79920
accagccatc	agaagttaac	actgaccaat	tgagaacaaat	catcgaaat	gatcctctt	79980
cagctacggg	agaagttgtct	gaagaactca	acttgaccat	tctatgatcg	ttcggcg	80040
gatgcaaattt	gaaaagggtga	aaaacctcaa	taagtgggtt	cttaatgagc	tgagcaaaaa	80100
tttaaaaaaa	gtatttttga	agtgtcatct	tcttttattt	tatgcaacaa	caatgaacaa	80160
tttctcaact	ggattgtgac	atgtgatgaa	aagtggattt	tatacggcaa	ctggtgacaa	80220
ctaggteagt	ggttggactt	agaagaagat	ccaaageaet	teacaaagec	aaacttgcac	80280
aaaaaaaaaa	aaggcatgg	tcactgttt	gtgatctgct	gccagtcg	tccactact	80340
ttttctgaat	cccaatgt	ccattatatc	tgagaagtt	gctcagcaaa	tcgatgagat	80400
gcactgaaaa	ctgcaatgcc	tgcgaccagc	atgggtcaac	agaaagggtc	caattctcc	80460
caacaacca	ctgcacatcg	cacaaccaac	acttcaaaag	ttgaatgaa	tggctatga	80520
agtttgcct	catccgcaat	atttacctga	cctctagcca	attgtctacc	atttcttca	80580
ggatcttgc	aacttttgc	ggagaaaatg	cttccacaaa	cagcaggat	cagaaaatgc	80640
tttccaagag	ttcatcgat	ccogaagtat	ggatttttac	gctacaggaa	taaacaact	80700
tatttctcat	tggcaaaaat	gtattaattt	taatggttt	tatggatt	aataagtgt	80760
tttgagccta	gttataatga	ttttaaaatc	acaatccaaa	accacaattt	ctttgcacc	80820
aacctaataa	ttgtacatac	ttatggggc	acgtagtgtat	gtttca	acataatgt	80880
cagtgtatcg	atcagggtaa	ttagaatagc	tatcatctca	aacatttat	atttctt	80940
gttgggaata	ttcagttttc	tcctagctat	ttggaactgc	atagtacatt	attgttaact	81000
atagtcatc	taaagtgcata	tagaacatta	aatgtattt	ctcttattt	actgtat	81060

tgtctccctt aacaaatttc tcactatctt	tgcctttccc tacccttccc agcctctagc	81120
atcctctgtt ctatgtttt ctttatgag	atcaactttt taaagcttct caggatgagt	81180
gagaccaagc ttgtttgac ttgtgttcc	taaaacaag gtttaataa aacaatacaa	81240
aagggtggc aggccaaagc taccccaaca	ttaaaggccc ccaaagaagt ctgatctatt	81300
taccctaaaa gccagaaaagg aaagattaca	atgagaaaacc cgaccaaaaa ttgcttgggg	81360
ctatgattag gcaggtaat caactgacaa	aaggccaag gtcccttgc taaacacett	81420
gctggaaacc caagcttgt gcacatgagt	gggtgaaaatg gtcaggagtt ggagaagaga	81480
aactccaggc ctccttgata ccaaagcccc	tatgtgctgt ggtgaagccc cagtgtggc	81540
tatatacaga attgtataca gaatatataa	ttgtaaaggc tgataggggt atgaaaagttg	81600
gaatatttg a caggctta tgtaagaaag	cagtgtctcc ttgcctgag tttttgtgg	81660
gaatggatat tgcctggctg gagaacactt	cccttaccta gtattataaa actgaaatct	81720
gttgatatag ttctaatgga gactatagtt	aggaatagaa gagttgaggg aattaagggtg	81780
aacatttgg a taaaactaa tatgtttggg	caggcttat gtgaagtgt tgcatctcct	81840
ttacatgatt gtattatggg actagacatt	gtatctgact ggggaatgtt tcccttacct	81900
agtactgtaa aacagaaggc atatatatcc	aacctccaag caatattaat tgaacacact	81960
aaatgagaac cagtaagatt gtctgaggc	agacagtgt aactggaaagc tggagcactg	82020
gtaggaacaa attctcageg tgatagtcct	ggcggggcg gggcgggggg agggacata	82080
aaccgggact tatggcaaaa gcctgtgagt	gcctcccaagt gatgaacact gggacttga	82140
actagagaat ttcccacctg gggtcaatta	ttaccttgtt attggacatt aattgaagct	82200
acctcagtga ctgaaggaca taaaacgatc	ttaaattctg aaataccat gatatcttgg	82260
gtgatgtcag agaaacactc tactggggtt	aggggaagg cagtgttcag aggtattcca	82320
tgaaaatgag ttcaatggaa atagaattca	gtggaaatgg ttatacagg atcatgctat	82380
ctaggagtgc aaggaggaga cactcacaaa	cagagagtct cttcacccct aggactgatt	82440
ccagagctgt gtgaggagct tctgaattat	attagttgtc cagtgcctta taaaaccatc	82500
ttaactgagc actaagagct gcttgttctg	tggacagcaa ttccaagggtg aacgaacatc	82560
ctgtttggaa ggcaccaact ttgtttgaag	aaagcaaaaa caaatcagct caatgggttg	82620
aattgcatgc tgtttaccta gcatgatgga	agaattgaac agtggggaaa gccccatgt	82680
tggggccagt ggcctggcca cacactcagg	caagaggta atgaaaacct ggcctagtaa	82740
aagggtgctc acagggggca cagtcctacg	ggaatttgag gggtcattt aagttaggaca	82800
tgtcaatgcc cttcagaaga atcgcttcc	agatttggaa ggtagttgaa attggcaaat	82860
agatgtccct gtgtgttgtc ttaaggtgga	cacctggttc cataaaatga actgacactg	82920
ggtagggca gccacgcagc tggaaatgaaat	ctaggcatat tcctttgca tcctctgagg	82980
cacaaaatgc caataagaac ttttctgttt	gccagcagga gacagaggtt ccagaggcgt	83040
atgtggcaga ccctgggtgg aaggccctga	acatagctgg caagtgagac tgatgggtgt	83100
agccctggca tgggggtgct aaaaagggtt	cttgaccaga atagatgctg tctctagact	83160
gggttttgc tacctgggtt aagatgcaaa	tactcagaat gccataaaaag aagtggaaaata	83220
gaagatattt caccatattt gatggcagat	tcacatttct tcaggccaag aaatacaca	83280
tatagcctat aatgtccaac aatggcaga	gagatctcct ctcagaata atagttgtat	83340
agaaaattgg aacagacaac taaaacattt	gttgcotgaa atggaggggag ataaatgcat	83400
gaaaggctgg cttgcacatc ttccacaatgt	tatgctcaca ctcagcaga ggagatgaag	83460
aagtcccccc actagataga ctcctctgtt	ttcctgggtt atctggaaa gaagagatgg	83520
ggagaatgtc ggtgtgacta tgcaattctt	agtagggaaa gaatatgctg atactatgac	83580
tatttttta tcttcttcaactatataa	ctttttttt cttttctta tctgtatgcag	83640
tggttataga accagggtcg attccaaacga	caacaaaaat gtgtaaattc ctaaggccct	83700
gatggggcag attgtgtctt gatccatct	gtaaaaattt gggtcatacg taaatgcatt	83760
tatattttac caggtggtag aaacacccca	ctagttctgc acctgtgtaa ctttacccta	83820
tctgaatggg agtggactaa gtggggaggca	cttgcttagac tagcattgtc gcctgcaatc	83880
tggaccagca cagtgcccaa aactaatgt	cttccggaaa gatggaaagt ttaggcaaaa	83940
atggggagaa ggaggaagag tagctaaagg	caaaggaatg aataatggg ttgtgtgatg	84000
aegggaaatcc aatataatatt aacatetca	aagaggctca gageaagtga tgatattgtt	84060
tcttagctcc attatacaga tgcctaaaag	gctaaagctg tatgtttgca gagtccagtc	84120
ttgcttttgg aaccctggca gatctctcca	acaaggctac cagcccaagt gctctccccc	84180
tgggagacat tttcatacaa tatacgatg	aagtggact aattattat gatggaaatgg	84240
gattctagta atgcgccagt atttttttga	gttctatatt gttgtctgt aagggtttct	84300
ggccagagtg acccagaggg atgggtgt	acatcataag aaacacatata tagggccctg	84360
gcctcagcca gggacccctg cagtcggaa	catccaacaa aagaaacaca ggcacagcac	84420
cagtgcacagg aggggcttcc tccaaaggctc	aggagtgtac ctggtaaggg gtttacctt	84480
ctcctccact gcaatgcaga gtatggctgc	aaatgaaagg aaatacagag aagccatgt	84540
gctaagagcc tatctactgc ccattaccct	taagccactc ttttatcttt aagatctgt	84600
ggatcatgc ctaaactata acatcaaaaa	tattttgata ttatgcctc ctgtgaaacc	84660
aaggcaaga atttagccac aaataaagac	cctgaacaga accttgaccc tctgaaaaca	84720
cccagaagcc aactgacaat actcaactta	caccacagta aaatgaacac aaaccctccc	84780
agatgagaaa gaatcggtgc aagaactctg	gcaactcaaa aagccagagt gtccttac	84840

ctccaaatga gtccactaga tttccaggaa tggctcttaa ccagactgaa atgacaggca 84900  
 tagaactcg aatgcagatg gcaagaaaagc tcatacgat ttaggagaaa gttgaaacct 84960  
 aacccaagga atccagtaaa acaatccaag acctgaaaga caaaatagcc gttttaacaa 85020  
 agaaccacaa tgaacttcca gagtaaaaaa attcaactaca ataattctat aatataatta 85080  
 aaagtattat caacagaata gaccaagatg aggaaagaat ctcagagctc aaaggccagt 85140  
 acttcacatc gacacagtca gacgaaagtt aaaaaaattt tatttcaag agaattaaat 85200  
 cgtttattga ttacacgtga taatggatga tacacaagct tcattcccat ctataattt 85260  
 atctggtacc attattcaat ttagatatat tgcataggat gtgccaacaa tcactttat 85320  
 aaccattcca tgatttgct tgggtaatcc ctttaatgg tgaacttcag gtcacaacag 85380  
 taactatcg ttcaactaca ccaaggttc caaagacaat ggcttctcca cccaaggcagg 85440  
 ttgttatataa attccaaataa gaacctggca tcaccctgaa ggaattctaa ttacacactg 85500  
 ttggggaaat ttaccaagat ggcttcagag tagactaact ttacacagca cattaaaaaa 85560  
 aaagacattt attcagcatc acgatcagac tattacattt agcaatcaac agcatgggtg 85620  
 caaaaaaaaaa aatctacatt aaaaccctt gttgaatgc ttacacactt ccacagaaca 85680  
 gaaactaaaaa taacctgtta tacaattagt cacaatatac gtccttgagt ttttgccca 85740  
 tacacatgag tatttgccta aaacatgtct tctttgttagc agctaggccc tgccaccact 85800  
 gtgcttggct gagttcacaat atctgtcgta acctgttagct tccctgtcac ttctctggct 85860  
 ctccctccct gctaagcttt gttcctaataa taaaatcttca aatgaacaaa acttccaaga 85920  
 agtatgtaaa gagaccaaata ctgcaattca ttggcattcc tgagagaaaa aaagagaata 85980  
 agcaaccctt gaaaatataat gtggggatata agtccatgaa agtttctcta atctcactag 86040  
 agaggttaac atgcaatattc gggaaatatac gagaactcgc tagatgctat acaacatgac 86100  
 catccctcaag gaacatagtc atcagattca cgaacatcaa cccaaaagaa aaaatcttaa 86160  
 aggccagctag agagaagggtt caagtcacat acagagagaa ccccatcagg ctgcgcgc 86220  
 accttacgc agaaatctta cacctcagaa gatattgggg gtctattttt agtgcctta 86280  
 aaggaaagaa atttcaacca agaattcata ttcccttcaaa ctaaacttca taatgtgaagg 86340  
 agaaataaaaaa tccttctcgat ataagcaaata gctgagggac attgtttcaaa ctaaaccaggc 86400  
 cttacaagag gtcattaagg gagtgcataa catggaatca aaagagtgtt acttgttacc 86460  
 acaaaaaacac actaagaata tagccccgag gtactataaa gcaactacac aaccaggct 86520  
 acataacaac aagctagcaa cacagtccaa ggctcaaaat ctcataatacc tattctaacc 86580  
 ctgaatgtaa atgggctaaa tgcctccact taaaagatata agagtggcaaa gccagataaa 86640  
 aagacaagac ccaaccatct gctgtctca agagactcat ctcacatgta atgacacccca 86700  
 caggttcaaa gtaaaggat ggagaaatata ctaccatgca aatggaaaac taaaagaaac 86760  
 cagtcactat ttttatgtca gataaaatag atgttaaacc gatttctatt aagaaggaca 86820  
 aagaagggtt ttacgtttagt ctaaaatgtt caattcaaca agaaaaatata actatcctaa 86880  
 atatatacac acccaacattt ggagcaccccc aattcatgaa acaattcttca ttggactaca 86940  
 aaaagactta gataaccaca caataagat gggagtcttca aacattccac tgacagcatt 87000  
 agacagatca ttgaggcaga aaacaaacgaa agaaactcta gactttaact tgactcttgg 87060  
 ccagtttagac ctaatagaca tctatagaaacttccacccaa acaatggcag aacaaataact 87120  
 cttctcacct gcacacagag ttccgctgtt gtcgtccagg ctggagtgca atggcgcgt 87180  
 cttggcfcac tgcaacctcc gcttcccagg ttcaagtgtt tcttctgct cagctccctg 87240  
 agtatctcg ggattatgac acccatcatc acggctggct aattttgttt tattttttgtt 87300  
 ttgtttgttt gttgtttagt gttgtttagt ttgttatttt tactagagac cgggtttcac 87360  
 cacactggcc aggctggctt caaactccctg acctcaaaag atctgcctgc cttggctctcc 87420  
 caaagtgcgt ggattacagg tatgagccac cacacgtac cacacagaac atattctaag 87480  
 attaactaca cgctcagtc taaagcaatgtt gttaaaattt ttttgtaaa gttgaaatca 87540  
 tbeccaagcac actctcggaa cacagtccaa taaacataaa aatattatca agaacatctc 87600  
 tcaaaaactgc ataaatacat ggaattttaa caacttactc ctgaaataact cctgggtgaa 87660  
 tatcaaattt aaggcataaa tcaaaaaattt ctttgaattt attgaaaataa gggatgcaac 87720  
 ttaccaaaat ctctggatg cagctaaagc agtgttaaga gggaaagtttta gagcatgaaa 87780  
 tgecttcate-aagaagttttag-aaagatctca-aatttacaat-gtaagtttgc-acctaaagga 87840  
 actagaaaaa gagaacaaac caaccccaaa gctagcaaaa gaaaactaaa attagagaag 87900  
 aatttgcacac tgagttgcaaa aaatccatac aaatgatcaa taaaactaca agttggttat 87960  
 tagtaaaaat aaaccagatc aataggccccca taacttagatt aacaaaatca aagaagatcc 88020  
 aaataagcac aatcagaaaat gacaaaaatg atgttacacc tgatcccaca gaaatataaa 88080  
 agatccctcg ataatattat gaataactct atgtgcacaa attagaaaaat ctggagaaaa 88140  
 taaataaattt cctggaaata atctcctaag attgaatcg gaagagatg aaatcctgaa 88200  
 gagactaata tggactctg aaattgaatc agttacaaca acaacaaaaa aacccttacca 88260  
 atcaaaaaaa gtcctggatc agattaattc acagccaaat tctaccatgttacaagaa 88320  
 gaaactgagac caattctact gaaactattc caagaaaatc caagaggagg gactcctctc 88380  
 taactcattc tatgaagcca gcatcagctt aatgccaataa tctggagag tcacaatgaa 88440  
 aaaaaaaaaac ttctggctaa tatccctgat gaacatagac acaaaaatcc tcaacaaaat 88500  
 accagggaaac caaatgcagc ggcacatcaa aatgttaata aacgatgatc aagtaggctt 88560  
 catccctgag atgcaataat tggtaacaaca agtacaaaatc aataaaatgtt attcaccaca 88620

taaacagaat	ttaaagcaaa	aacaatatgt	tcatctcaat	agacaaagaa	agaatttctt	88680
ataaaatctg	acatccttc	atgttaaaaa	ccctcaacag	actcagcatt	aaaggagcac	88740
atctcaaaac	aataaaagcc	atctatgaca	aacccacacgc	caacatcata	ctgaatggc	88800
aatctggaa	gcattccct	tgagatatgg	aacaagacat	aatgccaaac	tctcaccact	88860
cctattaaac	atagccctgg	aagtccctac	tagagoaalc	aggcaagaaa	aagaataaaa	88920
aggcatctaa	acaggaaaag	aagaagtcaa	actatctca	ctgacaat	aattctatac	88980
tttagagaacc	ctaaagaatc	caccaaagg	ctactagaac	tgacaaatta	tttagtaag	89040
gtttcaggat	acaaagtcaa	tgtacaaaaa	ttactagcat	ttctatacat	caataacact	89100
caggctgaga	gtcaaatcaa	gaacacaatc	ccatttgcaa	caaccacaaa	taaatgaaat	89160
accttaggaat	acagctgacc	aaggaagtga	aagatctcg	caaggagaac	tacaaaactg	89220
ctaaacaaa	ttagagatga	cacaaataaa	tggaaaaaca	ttcaatgctc	atggatagga	89280
aaaatcaatt	tcattaaaat	ggccatgctt	cctaaagcaa	tttacagatt	caatgttatt	89340
tccatcaaac	tacctgcacc	aattcttcac	agagtttagaa	aaaacaattc	taaaattcat	89400
atccaaccaa	aagagccaga	atcatcatag	caatcctaag	caaaaagaac	aaagctggag	89460
gcatcacatt	acccaacttc	agactatact	ataaggctat	agtaacaaa	atagcatggt	89520
actggtacaa	aatggactc	atagaccaat	ggaacagaag	agaaaactca	gaaataaagc	89580
cacaaaccta	aaaccatctg	atcttcgaca	aggtcaacaa	aaacaagcaa	tggggaaagg	89640
actccctatt	cagtaaatgg	tgctggata	actggccage	catatgcaga	agaatgaaac	89700
aattgaaaca	cagccatgcc	catttggata	ggtatctcc	atggctgtct	ttactatcac	89760
agcagttgcc	aaagagaaca	tggctgcaa	agtccaaaat	atttactatc	tggacttta	89820
tagaaaaagt	ttgctgatac	tctaatttgg	atcactgagt	gaccacatgg	aagacaacca	89880
cattgttgac	ctgaacaaca	acactctact	tctttacata	aatgaaaat	aaggcattga	89940
aattctggc	ctaattgcta	ccatagttt	tcctggctc	actaataatt	cttcctcagc	90000
agtcacaggg	tgattgactg	atgaatgtac	atggccaaat	catcagttgt	ttgagccatt	90060
gaggtggact	agttatgccc	atgggagtag	agctctctcc	tctacgaccc	accacgagcc	90120
caaaatttcc	tccagatact	ctgaccagtc	agtcctagga	cctgattgac	cccaggaggt	90180
ctgaccccc	aagtataaca	cagcatcatg	ggcagcatca	tgggcctggg	aaggtgtaaa	90240
cataatccaa	tttctgcccc	ttgaactgaa	tgttaacagg	aagacgttcc	ctgaagcaga	90300
aggaaatgac	cttgatgacg	atgaccctt	ccaaaggtag	gtacccttgc	cttgcaccc	90360
acctgggtgt	catgacgggt	atcaaggctg	gccctgctt	catgtacta	actggccttc	90420
gatggttcac	ttttcccatt	gagtgacttt	tttcagttat	acactttgt	aaactagaag	90480
tgtttttact	ggcattttctt	tatgtacttt	tttattttta	ccatcatttt	aatttaaaaa	90540
atgcagtcac	acattttcca	tgcataccctc	taatttatgg	caggttatag	aggtcttgca	90600
tttatggcaa	tgttataaaag	tctctttttt	gagtgagcat	gttgaagtaa	aaagagtgac	90660
ttcatttaaa	gaaaactgct	catggaagta	cagatgatat	gctgataagg	caaaaaacca	90720
tgatatttagt	atgagactaa	ctgagggttcc	agaaaacactg	cgtatgcccc	ggctgcagtg	90780
gagaatgtca	tagaatcctg	gattcataga	gtgtggagcc	atggtgaagg	gtgcgtgaga	90840
gggtccctcc	cccagagcca	caccctgtct	ttccacaagg	aattcccaa	tgtcacccag	90900
tggattcaga	cttctgtctc	ccagttcagt	gttctccacc	acaaaatcta	cacctgatca	90960
atcccatagt	tcagagacaa	agctgagtga	ggggcccaga	aagacatgtg	tttctgtgc	91020
ccaatgcctg	ctctaacatg	tgtttccac	atatctctg	agcaaactga	tggaggtgga	91080
gaagcttggg	agagttcatt	tgaaggcccc	agatatgccc	actctcccaa	gtccttaccca	91140
acctccatag	taagccaggg	gtggctttgg	catgtgtcca	tggggatgtt	cgccctaaag	91200
tgatgcagga	aggagtcaag	gcagtcccc	gatgggctga	tcctttgtcc	tggaatcctt	91260
aagatcattg	tagatcctta	agaacattcc	agaactctca	cagcattctg	gagtccattta	91320
tttaacacat	gtttatttag	cacctactgt	gggcccaggca	tgttcttggg	tccttgggggt	91380
ccattagtga	acaaagcaaa	ggtccctaga	ttcacggagc	gtgcattcta	gcagggggag	91440
acagataaga	agaacatgca	aattactcca	tggatcatgt	gatatgttag	aacgggataaa	91500
gtgccttggaa	aacaaagaag	cagttaaagca	gatgagggag	atcagaagga	aggatcccat	91560
gaattccgt	gtcttgaatt	ttgaaatagt	agggggagagg	agtggccag	gaggtgtgt	91620
agtggcaagt	gtactgaggt	gtccagtcgg	caagtctca	actctcaggt	gtgcccagct	91680
ccctaatgtct	gaggagaaaa	atggcaggt	tgtccattca	ccctggccaa	gctggaaaga	91740
aaagccaaa	ggttctaatt	ggcctcacca	cctctccca	gggtacaaag	gaccctacag	91800
gcatcagaga	agaccccatt	catctcagca	gccaggcatt	tggagggttt	ccagcagccc	91860
acctctagct	gccttctttt	ctttcctttt	ttaaaaaata	atatttactg	tttttatttt	91920
ctgactgcaa	atgtaatgca	tacttattac	aaaaaaaggta	aagtattatg	atttaaattt	91980
tgtttgtatt	ccagtttttc	tgccttgtgc	tatactttct	tcctttaaa	tggaatgtta	92040
agttcagata	atttggatgc	ttgtttgtct	cattaagtat	atcatgagca	tcattctatg	92100
ccattaaata	gcatagccctg	atattagcag	ctgcatcaca	tttggatttg	caccacaatt	92160
aatttccca	agcttttatac	tgggttcatt	agttacata	tgaagttttt	gataatatag	92220
agagcactgt	gatgaatatt	ttatagtgaa	acctttatgc	ccattcataa	ttattnnagg	92280
ataagttccc	agaaatgaca	tttctgagtc	gaaaagtgt	tatctttgt	taaaattccct	92340
tgccaaaata	ttccaactac	acttctccca	ttgaaggatg	aaaatctcca	ttcatcagat	92400

ttttgttgtt gcttggggtt attaaaattt	tttttgtta tcggataggc aaaatgataa	92460
taataatagc aatatttattt tcctatttag	tttgcattha tctgaagacc agtgaagttt	92520
agttctttt cccttcttc acattggaaat	gttgtttta ttattattat tattataatt	92580
attattgttg ttatgccact tgtacttgg	gatctgcagg aaaacctccc aagatggaaa	92640
gcatgaaatt gtctttgtg gctctgattt	ttgacagctg tgcacccca gagcttgagt	92700
gcctcagttt cctcatgtac ctatggggg	ccatgaggcc tgccttctgg tactttgagg	92760
tctggactg ttgcttataaa tatacttgg	tataagcacc acatggcatg gatctacctg	92820
gctatgtaaa ctggggcagg ttctctaacc	tctctggct tcagtttctt cattgtaaa	92880
atggaaataa tggAACCTAT gtaatcagag	taatctgagg cttaaatgag ttaatacata	92940
aagggtactt gaaacagtgc ctggAACACT	gggaggacgc aataactatt accaatgttc	93000
atctatgttg tattctttag atcttcatc	agggcaacca acagcactt cctggatag	93060
gcagatggta gaatcttggc atgtcaggc	tgcaagactc atgcagaaat caatcccttc	93120
acatagacctt ggcagattgg gaccagaat	gtgaaaggaa ttcacccaag gtcacccctgt	93180
aaatgtgtgg gagagacaaa actagagcac	agttctgacg ttgtcccaca aagattttac	93240
ccctaagata ttgttgaaa tgcaccccttcc	aagggaggat cagtgtattt gtggcttccc	93300
ctccctcaatg ctgggagttt caaaatttcc	ggggagaaaa gagctgtgaa gccccttctca	93360
ctctgcttgg ttttaggaga ctttagttag	tccacgcgc cccacctgaa gcccctgtata	93420
gcctcctacc cactacaatg tcgtgagttt	gtaaatatca agtccatttt caggcttaaa	93480
cctcccagtc caaggcgctg ccctagaaga	cacctcgctt agatctggct gaacctcagg	93540
ggttcttctt tccccctccg caggtgcacc	caagatccc agttagggca gtttctctca	93600
gaactattga ccaaccgaaa ggaaacattt	ccttcaaggc tttctgaaag ctgtctttac	93660
ctcaatattt acactcttgc tgacttgacc	aagaaaaaaca ggctgctggg aagttgtggg	93720
atccccctgtt caagacgtgt cagtgccagt	accccaagata ttcttagtata gatcgaaagg	93780
ggatgaaggc agttggggg gggagctgca	caggccagga ttgtttcagg accccaggc	93840
ctctacagga aacacaggtt ttccacacgt	cagttttccc tcgtgacata gggactctgg	93900
gggagtttgc tttgccttt taatgaacat	cttaattttt ccaagttccc tcatagtataat	93960
agaaggatga gaatgattac cttagttac	tagattaaaa atctgataacc cagattggta	94020
tcagagttgg taagacatga tttcaataa	tgtagcggt cgaaggaaact tagagaaaaag	94080
ccaacaccc aactcttcc ttccagatag	agaaaccgag gcccagacag ggaagggag	94140
gtcacccagt agatagttt tggctcaagt	cttctgatct tcaaactagt gcttttgaca	94200
cagagtaggg cattgagatt gtatgtggcc	tttctccagc acaccaacat ccatctgggg	94260
taactttcac tttccgggta tgggtttgg	gggcagagcc tggacaatc ccagaagctc	94320
ttccttttgc ctttggccaa atatctggaa	ttttttgtt cctaatttcc ctcccttaatt	94380
gtgttggcaa agggtatgtt cccatgtgt	cagcatatgc caaataaaca aacggcagga	94440
gatggggctg gctgccagct gcagggttgg	gagtgtctgc tggcaagaa ggccacccca	94500
aggtgaaaga ggaagggggt tcaggtccag	tcagttttccc agggcaccg tagcatggg	94560
cctaggagtg gcccggcagg tctgcgaaaca	ttggactaga agttggccct acatgtgctt	94620
cgtgagacac agaaagtggg agaaaggattt	actcattaat tcatttattt ttctattgtt	94680
tactcagggc cccatataaca cagtttagacc	ttgggcttca cgaaaaggag gaacatgaac	94740
gcactccaca ctggccctgc ctcaaggat	tttgcctttt gttttgtt ggcataatcct	94800
ccttcagca ttttatttgc ggtcagact	cgggctcagt cttcacacaa agatgaatgc	94860
acactcaatc cttccacagg aggccaggcag	ggatttagagg tttttttt acaggagctc	94920
tgggaacctg aaggcaggaa aacccctcagg	aatggccaca gtttcttagaa ctacacgtgc	94980
ttagaacatc acttcgtaca tagttatgt	tatgagttct ttatatttt atgaataata	95040
ttattacaat acttatttt tagccactt	cacttcttcc ccactatgtt gactttttttt	95100
atgcaagaac cttgagttttaa gattgtacc	tactcttcattt ctcgggtatt agcagagtcc	95160
ctggcacata gtaagtttctc agacagtgtt	agttccatttga ttgaaggcat cctgaagagg	95220
gtgggttttta ggttggctc tgcagggtgg	ataggatttgg ggtatgcaga ggcataaagg	95280
aggcatttga ggaagagaca ccatcacagg	catgtgttca ttcactgacca atcattcatg	95340
cacagagaag tttacttccatcatgaaagag	ttaacttgcata tqaagctqag atacaaggc	95400
tgccccatgg gtacgcggag tgcttgaaca	gtccaggctt ggggtt gatg ggagtggaggt	95460
ggagaacatc aatcctttagt gtttgcattt	cccatgatgtt ttttctcagg gtgaagagcc	95520
ttgcggaggag gaggcactgg agactgggtt	gaaaggaagg ggcaggccagg gtatgtcag	95580
tgggttgggtt gcttggggcc cagttgggg	aattatggag gagagagact gccttttgc	95640
accttgcgtt gcaacttgcata aattttggta	acaaccccttcc tcagttgttca ccaacaggca	95700
ggtcacccaaa caagatggcc tctgagtgtt	ccctggccctt gtgttctgtt acgagatgtt	95760
tgcttcccccc ctggccaggat gatgggttgg	atccacagag gggggctgtt ggtggccacc	95820
gcatcaacccct ctgtatggggc ggtactcgca	gccccatgaaa acgtgggtttt ggtgaccatt	95880
cagcactgccc tggccatctt gggatttctt	aggttggaaa tttagacttcc ttcactgcac	95940
cttggccccc caacatgagg ctgttggacc	cagctctgtt catgtcagcc ctcaggagac	96000
cttaacttggg ttcccttattt tagcagacaa	gccccatccat aattggacac tacctaccct	96060
ctcactcccc accacacta gtccacttgc	ctctgagctt ttgtatgtgg ttttttttct	96120
gccttggaaatg cttagtctac cttaaagaatt	cctcttccatc ctgcaagacc cagccccccag	96180

ttagctccac	tgaaagactc	atctcctttt	catctgtgct	gtccccacac	attgcatttc	96240
tctgtcatgg	cagctagcat	gcagcccagc	tgttgaagggt	tgacacatct	gacttctcat	96300
ggaaaggagg	gaagggggcag	agtcatacag	ggagttcagg	gcatattgtg	ggtgaaggaa	96360
tgggcgtc	agaaggtggg	gtgtgggagc	atctgactcc	ttcctggagg	agtgttggga	96420
cccaactcacc	ccatttctg	cttgaatct	ggcaagtgtg	ggaagcaaag	atggagtcct	96480
cctcatcagg	tctccatggg	gacagaagtc	cccatggcgt	ggaggaattt	ggtagcttg	96540
agagcttgtt	tggggaaagc	attcaaactt	aaagggctgg	tacattggag	gagagaaaat	96600
ggggatgcc	agaattttta	gaattttga	gaatgtttt	agaattcatt	ggttataagc	96660
aacagttcc	cagtgaccag	atttaagtca	agacggacga	ttggctaggt	gtggtggctc	96720
atgcctgtaa	tttctgagag	tgtatgtggcc	ctcactcctg	ctctggtgga	gaagggtgac	96780
gtcaagcccc	ttggctgaggt	aggctcccg	ctggatgccc	ccaacccctt	ggctctgtgc	96840
ttctgaattc	tcaagaggta	ttcttgccat	gggttctagc	tgtatgttctc	ctagaatcac	96900
tgaagcgatt	gggaggtaga	ggcggaaagcc	ttgcttgagc	ccaggagttt	gagaccagcc	96960
agggcaacaa	agttagatcc	tgtctctaca	aaaagcaaaa	aattaagctg	ggcatggtgg	97020
tgcaagactg	tgggcccatc	tacatgggag	gctgaagtgg	gaggatcacc	tgagcccagg	97080
aggcttatgc	tgcagtgagc	tgtgtttgca	ccactgcact	ccagcttggg	aacaaagcaa	97140
gaccttgtcc	caaaatcttc	tcttggaaag	gagaatttt	tttcaagga	aatagagatc	97200
tgggaggatg	ggctttgtgc	aaaaacagga	agcagaaaatt	acaaaatgtat	gggaatccta	97260
gactctgtta	ctcttgcctt	ctctctgtct	ctttctctct	gtctgtctgt	ctttctctct	97320
ctctctcacc	ctctacttct	ccctgtccct	gtttattttat	ttgagaaaaca	ctctggccat	97380
tgattctgtc	cgagatctg	cacggggctc	tggggccatg	tgcgcttgcc	ctgactcccc	97440
gactgtggag	cctgcctgct	ctccctctgt	gcccttcttt	ctggctgcac	tttgcttcca	97500
atctgcatga	gcaccctata	tgcccctgag	cttaaggact	ctccttgggt	ccagaaagta	97560
gtcaggctgt	cttctctgtt	gtggaaaaatg	agtgtttttt	acattagcag	ctctccaccc	97620
caattccagg	tcacttaaga	gagaggctca	ctgtcccgtc	tttgcttcga	tgtccctgaa	97680
ctcttagaaaa	agtaggaaac	cagagtatgc	tggcääact	gaccccaatg	cctaggtcag	97740
gcagaaggga	ccctgtccct	cgggaggggct	ttttaaattt	ttatattttt	tacatttttt	97800
taaagatgaa	aagaggtttt	tgggttatta	attattgtta	ctttgtggct	tgactcagga	97860
caaagggtgca	gagaccatcg	cccatggcca	aatctggatc	tatgcctgca	tgcccctgta	97920
gctaaggatg	actttttttt	atcatatgaa	attcaaaattt	cattgtccat	aaaggaagtt	97980
ttcctcgaac	acagtgcacac	ccattcattt	accttgcgtc	tctggctgtg	tttcatgcca	98040
acagcagtct	tgaagttgca	gcagagacca	catggccac	aaagcctcaa	atatttacta	98100
tttggctttt	gatgggcaca	ttgtgtacct	gtggctaaa	gagtcatgtt	tgattactgc	98160
ttgggactct	agtacacaaaa	tgtcagggtg	gaaactcctg	gctgtgccac	agatgcctca	98220
ctcagctgag	aaaccccatc	tatgtcttgc	aagggacgag	accctgtttt	tctttagaaac	98280
tcaccattaa	agcacatttgc	ctactttctg	aagtggctt	gtgtgaatca	tcttatctag	98340
gcctcctgca	attctgcaca	tctttattgt	gtggaagaca	tggcactctc	ccacatgtat	98400
taactcatga	ggttaggtgca	gtcatttatta	ccatccatga	gtggagaaac	caaggcccag	98460
acaaatcagg	tggactgcct	gtggcctaatt	ggctggtaag	tggagcagcc	aggatttgg	98520
agcagacaag	taaaattcaag	attccatcat	ctcaacccca	gctccacctc	acctttcttgc	98580
acacattcag	ctttagatga	ttatgtccat	ttcaatagag	ataaggttagc	agagataaga	98640
gactgggtaa	ttggctcata	ctacaatttgc	gattagtaat	agaggcaatg	ctctgcggaa	98700
tccagaacccc	acacatgtgg	gtctagagtt	tcttctgctg	ccccctgcct	cttgcataag	98760
tcagggcttag	tttaggataga	acatttttt	ccatattgtat	ggagggaaagg	gacttcgtc	98820
ttgaactctg	ttgttgcttg	tgtattttgc	agcaaattgc	taacacttttgc	gggtgtgaaa	98880
ccaccaactc	agctgtcatg	gctcaactgtc	tgcggcagaa	gatggagag	gagcttctgg	98940
agacgacatt	gaaaatggta	ggttgcctgt	tcccgttagcc	caaaccctgt	aaacttggc	99000
ccagacttct	tcatttcagc	tgtcttcttg	ccctgggaca	tttacactgg	gcaatttctc	99060
aagtctcagg	agtctcagta	tctgaatggg	gaatctaatt	tgtctttttt	tttattgaaa	99120
aatgacacaa	atgtaaaaaac	aaagtcacaa	aataacatga	taaaaaaaact	gaccaaattt	99180
actatttgc	caaattttaa	tattttgccca	ttcttggttt	cagatgtatt	tttgagaaaac	99240
taaacattac	atattcccaag	gggacaccat	cattctgaat	tttggggatg	gagttattaa	99300
gctcaaagat	tttcagaaag	atgtcacaag	ttatcttgcgt	tgacttagaa	actgtctgt	99360
ttagacctgg	tagtggtcca	gtttcttaga	ttttctgaga	ctctgactca	gttgcatttc	99420
taggatagtc	tttgcgtccac	tcaatcatta	atccatctac	tatgtatctc	ttatgcattct	99480
atgtgttac	taattcatcc	cattcatgt	tatattttta	tcaatctaatt	atcaacctgt	99540
tcataacttt	ttatttttct	atttcaatc	tatccactgt	tcatgcattca	tccagccacc	99600
atatacttta	actctatcac	cccattcctc	aaaaccaac	aatccagttt	tcacctatct	99660
gttagtttc	acccactatt	catgtatcca	tccaattcaa	ctgtactcca	gctattgggt	99720
aagccatcca	ccccctccatt	tatccaccca	tccatccatg	ctaagtatgt	aggggtgggt	99780
gttagaggt	gtgaaacaga	catgaagtgg	acatagtccc	tgctcacata	tacttttcag	99840
gttgaggtatg	gtggcagcac	agaggggaag	cattcattgt	agtcatcagg	ggtgcttcac	99900
agagaaggtg	gacgagccga	atttgagacc	agacagcgga	attcgggaaat	tcatgcctt	99960

aaccctgact ccacccattc tttcttggaa aattcagcat tgagatcatt gtccccattt 100020  
 taatagaggta aacagagaca gagaattttt gtaattggct catgtcacag ttccagttag 100080  
 tcagaggcaa cacagttcca gtttaggaccc agaaccacca cctgtgggtc tagaatatct 100140  
 tctgccattc ctgtgtccct cacatattag gacttggga cctttatgtat tgacggacag 100200  
 ctgtggcagt ctctcaacac agggaaagccc agcaggacaa acacccagat gacacagcac 100260  
 ccaggggccat tgggaactat tcccttggag ggagaagggt gtgaattcca agctcatgag 100320  
 tagcctgatc tctggaaatcc ctcccttggac ctgaggctac tcctgggtcc cagggtccggc 100380  
 tgcattaccat ggactctgtc tgtgtttaca tgggttgagt ccaatgtggt cttggagctt 100440  
 aggtcttgggt tcaagctcta aatgaccaaa gtgttcaagg aattaaaaca caactgcttt 100500  
 ctaatgcctg gaaggaggca aacattccag caattctgca tgtggcatca gaggacccag 100560  
 cttaaaagga aaaaccttgtt aactttggga aaatccagcc ctaagatcct gggacatcct 100620  
 tctgagattt tctgagatct tggggagcg cctccatgtat tacccactgc ctccagtaca 100680  
 cacacatgca gacacacaga gaaacacaca cacatagaca cacacacaca gagaacacaca 100740  
 cacacagaca cacagagaca cacacaaaca cacacacaga cacacacaca gagaacacaca 100800  
 cagacacacaga cagagacaca cacaacacaca cacacagaca aacacacaca caaacacaca 100860  
 cacacacaca cagacactcc tggctagtgg gactacaatc cttaatggag agacactgcac 100920  
 tggtaatcttc ctgcgaacag gccagacacg tgagttacag tgccagcgata caatcactgc 100980  
 aatcttcatg aacacacacc aaagagaagc atgggttagg gtaagttca gtgagttgt 101040  
 tgagtccagag ctgtgtatg ggagatgaga aaactcccc aaggtgcctt gaatggaaaa 101100  
 aggaatgtgt tggaaataaca tccttgggtt aactgaaaaa ctcaggagtt gacagtttca 101160  
 ggcattggcg gatccagatg cctattgtat gttattgaga atctaccatt etetatectt 101220  
 cagcttggaa caactctgtt ttgacttcac tcttcagcag atacatcttc tgggaagggt 101280  
 aaagacaaca gcaactctaga gttatattctt atctgtttcg aaaccctctg tccaaacaat 101340  
 tcctacaaaaa gttctgggtt aaactctttt ggttgcacat ggtatgtatc ctatccctga 101400  
 actaataccc gcaatcaggg aatggagcg ccccagggtca catatagatg cctgtatca 101460  
 tggagtgtata gggaaagaaa gagatccctg aaaaagaatg ggggtattt tccctggga 101520  
 acaggaagggg gagaggatg ggggacaggg aaggtccaa aagcagggtg cctatccaga 101580  
 gctgttagcaa tgctggctca gagttctgg cccatccctc ccgtggccgt gcccactctt 101640  
 tcgttctatg ctttcacccctt gtcgtcaggc ccagcagacg cagagtccgg cccacttcct 101700  
 ctggggccagg ccagctcggc accaggaggg agaacctgac acctctgtg cccacttcac 101760  
 ccagctcagt gttctctgg gaagccttacc cccacatcc tctgttttgc ttttcacaga 101820  
 atttctgaac tctagactta catggagacc ccagagaggt aaggacatcc ttgttctcg 101880  
 ttgcgggttt tgagttcttag cacccttaag ctccaaattaa ctataagtga aagaatccctc 101940  
 tctcggttaa ttataggaac tccttgggtc ttgtatgtca gggccagaga gggcagtca 102000  
 ctcacctggg taacacagcc aggaagacta gtggctggcc tggaaaccat tttctgtact 102060  
 cccagttccag tgctcccagg catcacctt gtatccctg ggctctgccc actccctgc 102120  
 ttttttacat ttctgtctcc caaaaatggc actatggag gaggttgaac cagaacattc 102180  
 cactatcggg aggccagat aacagggtatg attagccacg gagagggggaa gcctgaatct 102240  
 cagtccaaagg acactcaact cctcccaagca cacaggagtc tccaaacata tcctcgat 102300  
 ctcctcacca ccccccaccc ccaatgggtt gacagtttctt ggtgacatca cctctgacga 102360  
 atcttacaaat cctgtccctt ctgtgtccctt aatggagggtc acagcactt octaaatgg 102420  
 catggggcgga gtacatgaga atcattccag caaaagactt attaacactt tctatattcc 102480  
 aagaacttgtt ttaaggagct gtgtatattgg agtaaaaccaaa gaaagactt ccgttctttt 102540  
 gggaccccttc attacatgtt agggagatgtt caataaaaaaa gcaattcttag tatgtattct 102600  
 gtggatgggtt gtgcgtcat taggggttaga gtttgcagggt ggattcaat taatgcgcag 102660  
 gatcaggggaa tggctcaata agaagggtgc atttgagccca agctctggag gaggcatgaa 102720  
 gccagctgtc agggaaacctg gggaaaggctt ttccaggccag agggaaacagc cactgcaaag 102780  
 accccgatgg aagtggcagg tccagctgaa gaggatggag tttggggaca gactggctt 102840  
 aggtctgaaga ggtatggga agtggggagag ggatcattta aagttagttc atttggattc 102900  
 ttagcaagat gggaaacccctt tggagggtttt gaacagagga gtcacatgat ctttagattc 102960  
 acaaaggctt ctgccccctgg tgatcaaata gactgttagga aacggggcaga gtggatgcag 103020  
 ctgaccagct ggccggccac tgcattgcca taatccaggc aatggcttcc ttgtgtctaa 103080  
 ggctgttagta gtggggatgg gaggaaatggt tggagtctgg atatctttga aggaatagct 103140  
 gagaggattt gctgtggac aggtatgtat gggtaagaaa gggagaggag tggaggatgt 103200  
 cctgagttttt cggggcagaag caaagtccata cccacacagg gcagccactt gaaaactctt 103260  
 agtggacaaac aatcacttgt cattgttgc gatggcagtc ttccctactt gctgccaccc 103320  
 aaccaggggca atccctgtctc tctcctcaac ttttacccctt ttctacttca tattctctac 103380  
 ccaattccgt gtctcatggt gcagccagat tggcttccct taacagagtt agagtgcgtc 103440  
 acccccactt cttaaaagcc tgaccccttctt tatgagacaa attccctcc ctccatggag 103500  
 tttagtccctt aaaacacacc tgctgtgcga ctatgtgca gactatacag aagtaggtt 103560  
 ctgcacccctt ccctcccttcc aaaacctgca ccacgataat ttcccaagcc cagaactctt 103620  
 gagtgtttctt ggaatttacc ctgcataatgtt atatctatgt cccttgcgtc acgtgggtcc 103680  
 cgtttttttag aaattctcac tcctttccctc acttgtcaat accagtcaact gcccagagcc 103740



gtacttaggga ggtctgcata ctcttccccca gaaccctcta ttccacactg gcttggcaga 107580  
cacctccct caccatgtca ctggcactg taggtatccc agccgtacac acacacaaaa 107640  
cacacacaca cacacacaca cactgaaaaa cactgccaca gtttctccac atttttttt 107700  
ttttttaat cttgcaatq cttgagtttcc tggatataag cccatttgat tcattgattt 107760  
tgcatttttc agtaaaaacc catgcctta aaagccaaa atattggagg actttcagtc 107820  
tgcattgatt tggttggttc gtcagttgt ttcttctcgta taattccaa tgattcataa 107880  
atgcttaact tttttttttt ttttaacagt tgatgagcta tctactctcc gaaggaaac 107940  
tggaccagaa gacagccatg tcactcttct ggaagtccta tcccttggta gtaagagtc 108000  
aggaatcacr ggaattggct aggaccaca gagcgacaaag gattgccaa attatagagc 108060  
aattaaatgg cgaatgaag actggggct cagggtttct cccatcttc cacccttcc 108120  
acttcacttt ccacccttagc ggggagttgc acagggttgc tgggattcac cattgaggca 108180  
gcccttcctg gtgggctggta gaagctacat cgctcaccag ggggtggttc tcacttatt 108240  
gatctatccc agcgcattcc taaggaatttgc attccagaag ccattgagaa gtacttagga 108300  
ggaacagatg accctgtcaa gaagaaagac ctgttctgg acttaatggg ggacgtactg 108360  
ttcggtgtcc catctgtgac tgtggccgg aaccacagag gtgagtccta gagggtcgaa 108420  
aggggagggta tatggacccc accagttct gtatctgact cacctaccc ccagcataga 108480  
cagatgtgga aacagccgag ggtcaggcct caaaggctga ttccatatgg catggatgaa 108540  
ggtgtgtct tattttgggt tatgcagta gcagcctgtg aaaaaaaaaa ccagaggca 108600  
gcgggttttt taaggtggta atcccagata tcagcagtag ggcgttgggg aagtgagaga 108660  
gaaaagagat ggaatccaat ccaaggtgcc ttgacaaggg gtggacaact 108720  
ggaggetggga aactcaaggaa aacactgaga atacagcact cagggcgate ecategtgagc 108780  
accaaggggag ctggggatttat tatccaccag ctcccacttg tcatgtttg aaggctcttg 108840  
caaggagtgt ttattttccct gtgacttgc cttgtgtcac acaagggcag agtagtctct 108900  
tgtgaccaga caaaggccctc aggccgggag ctgcagatgc tggaggtaga agtcaggctg 108960  
gcatgcccag gaagagggga tatgggtgag acactgacat catctgtgc aagggtctca 109020  
tgcctggagt tattgtggta cataggctg ctgttaggaca aatattgaaa gatgagtctt 109080  
ggaagggttt taaggtccaa gttggctgca aacaagctt ttaagcattt gagctggaaag 109140  
aacaatggga gtcctgcaca ggatccagag gattgtccag gaccaagaag gccaaaagta 109200  
agagctatgg tgggtgtggg ggaggtggtc ggaagaatgg caatgtctga ggctggctt 109260  
tgtctatctc ggtgtgtca ggaacatgca agcacagtc caggacaggg tctatgcagg 109320  
accttctacc actgacccaa ggctgtgtgg gtggggcatg aggttaggga tgcgtggct 109380  
cacctctaga gaagtgtctt ctctgggtg ccaacttagag gaggctcaca ggactccct 109440  
tttcttcca gctctcattt gcctagttcg caagccagga aatgtctct ctctaaccat 109500  
gctggaaagg tttttaattt tggaaacttca taagctaaag ctaaagctat agctaaagct 109560  
gatgtcgca gttcccagac acaccttgc acaggaagg gcagtgctc ataactctc 109620  
cttcttcaca aagtctgtat aaaacccat aaccaggacc actggagttg aatcatttct 109680  
gtcttaaact tggctttgc ccatgttctg catctgatct atatatagtg ttcccatctc 109740  
catcttccaa tggtttgagc aatactgaaac ctctgtttt catctgattt cccacaactt 109800  
tgagttcaga gttttttgtt gttgtgttg ttgttggttt ccaggactac acagatctta 109860  
tcaactttca ctattgttg tgcactc ttttgataaa aaacaacatt tctgaacata 109920  
aagttaatat gttaaagttt atatgaagaa agtttcaaaa atatggaaac acgttaaagaa 109980  
gaaactacat atcactctta atccccccat ctggaggcga gttgtataaa ttttttggta 110040  
cttcttcata aagatttttca atgtcttata tactttaaa atcaattttt tatttcgctt 110100  
ttgttcatag aacactatgt tgcaggatt tctctcaat tcatataaac cctatttagat 110160  
attccttatt ccatgaaatg gctgtttaa atagactttt atattcttata ctaatgttta 110220  
gttttagctg gctgctcaca ttctgataact acaataaac tgagttcagc tgaataacta 110340  
taagtctcta accacatgtc tagtaattttt cttggaaattc ttttttagaaag cattccagtg 110400  
ggctggacca aagaatattt ttgaaactt tggcaaataa tgcaatattt taaaagttaa 110460  
cataagaacg tggatttctt aatttacttt ctcatttggg ataccaaggt gcatgttctt 110520  
tgctgccaat tggccccacc aaaaagaagc acatcaccc tattttttt tggccaaaaa 110580  
catgacatgt ctttcattgt ctctgttctt cttcttggta ctattgtca tgaatataca 110640  
ctgtgcctta ctttcctctg aagacttgc ttgtgactgt aggaattcta ctataataat 110700  
tcactttagc caaaaaggt tgacaaagta cattttggc agcatgtgc tggaaaatgt 110760  
ttctatcatt cacaaaagct ctttcctcttca tagttggctc tgagttctt ctttgaagca 110820  
ttgaatggca aaggcaaggt ccaaccctcc ttttagcaag ttttgcctga gtgcgtctcc 110880  
gccatttaac aggtggatta cagggccaca gaaggatggc atctccaa ttattctca 110940  
tgctgagcca agggtgcatg gcaggaggct gacaaagatg agtgaataga tgagctctg 111000  
ttcttacatt gaaatgacat gtgcgggtgg ggcgtgaggt tagggatgc ctggagggtgg 111060  
ttgttaaattt cttttgtggc tgaatattta agaatgtttaa gaaatgatgg gtgagagcct 111120  
tggctcatac ctataactctc agcccttgg gagactgaag tgggaggatt ggcaacatag 111180  
aggatttcaat gatcagccctg tgcacatgc tgcacatccat aaaaattgttt aagtttatat 111240  
tcaaaaaatgt atgatactat attacaaaat aacatataata aatcatccc agttaccagt 111300  
acataaaaaga gagatatgtt aaaaataaaaaa agaagcgttc tctgtggtag

gatgttttaa atttgatttt taaaatgggtt tttcaaaaatg attttaaat tatataaggag 111360  
gtggaaaatt caaagtgcgt aggacacgga ccaggtggcc catgatgtag cccagaagg 111420  
ccagtattt gtggctccaa tgagccaatc attgggaaac tggcatcttc ttccggctgg 111480  
aacaggagag ctgtttgttt gggagagaag gcaagcaaaa agaagagagg caagggaaaa 111540  
gcaagggtcac ccttgcgtcg ccccttctt ggtctccat gacttactg ccttaacacc 111600  
ctaacaactcc caggccaggc aggcagcaag acacatggag acagttagat ataaagcagt 111660  
gagtgccgca gattcctgag acacaagagg cagattgttc cctctctgca tatgtttgt 111720  
tttaagttagc ctcatgttca gacaagcaac ttggatttgc ttcagtttc tcaggatgg 111780  
tgagaaaaac actggaaagtg ctcaaatga gggagaacag aagacacctg tcagagtgg 111840  
gatggcgtcc aagtgaacga agtctgttat caatgaatta catccagtgt aaccagatgt 111900  
agagagattg tcttgtgtga gaatgtacca gcaggcaaa gggtttacga ggcagagtca 111960  
gtgtccctgc actggcagtt attttaatg aattgaccca gggtttccac attcattcat 112020  
taaacatttgc ttcatgttca aaatatctgg ctctaattcc agttccacct caaccagcta 112080  
tgcagcccg agcatgtcgc tgagcttcc tggactctg tttctctact gtgctgacag 112140  
ccagaggttt cctgcagagt tggagacctt gtagccccc aggtgtgtgt ctggcaacat 112200  
gaactgtgca tgaatccttgc tttctcaga tgctggagca cccacctaca tgtatgagtt 112260  
tcagtagccgt ccaagcttct catcagacat gaaacccaag acggtgatag gagaccacgg 112320  
ggatgagctc ttctccgtcc ttggggcccc atctttaaaa gataatggct ccttgcctc 112380  
cgtgagctt gaggtaggag atctgggttc ctgtcttggt gtggggcctt tcagcaagtt 112440  
tcttctctcc tggctttagt ttactgattc tctataacag ggttgaatgt cactgggtt 112500  
tcccccaagct tccctccact ctaacatag tgaggccggg tggattttca tggcccttt 112560  
gcacagccac tcagaatccct gctctgtgac atcaacaaga cgggtgtgt tgggggagtc 112620  
ttctgaagga ttcaactatac agggttgaat gtcatttagt tggccctccag ctteccctct 112680  
ctctaataca catgacgggg gatgttgc tctgatccat ctgcacagaa actcagaatc 112740  
ctggccctgt acatcaacaa gacaggccggg agggttgc tggcaggatt cagtagaca 112800  
gagttgaatg tcatcggtt gtcaccccccac ctctccccc tctaacatac ctgagggagg 112860  
atgttattt atgtgccttc tgcacaggcg ttcagaatcc tggattttca catcaacaag 112920  
acaagtgttt ggggggtctc ctgcaggatt cactatgaca ggttgaatg tcttgggtt 112980  
gtcccccaagc ttctctctgc tctaatacac attaggagg atgtgcattc atgtacccctc 113040  
tgccacagac actcagaatc ctgggctatg tcatcaacaa gacagggtgtt gggacacatg 113100  
caggggtgct cttaggttag aagccaccaa tcaatttccc tctccagga gctgtgagaa 113160  
tgtgagttgag ggtgagatta gagttgtgt taacccttag tcaaggctaa tgggtgtcg 113220  
tttgcctttc tggctgtctc taacaaaaac tctataaacct ttacatttat tacatttaat 113280  
aattgttagt ttagaaatca caggattatg aattacgatt tatagtcagc aggatttact 113340  
gtgacaggat tgaatgtcat tggctgtcc cccagtttcc tccctgtcta acacacatga 113400  
gggaggatgt atatcatgtg ccctctgcca ccgacactca gaatcctggg ccgtgtcatc 113460  
aacaagatag gcccgggggac acatgcaggg ccctgtctca ggtttagaaaa ccaccaatca 113520  
atttccctct cccagaagtg ctgagaatat gagttgggt gagattagaa ttgggtgttaa 113580  
ccctgagtc ggtctaattgt gtgtcggtt gtgtttctgc ctttatgtct ctaacaaaac 113640  
ctcataaacc tttaaattta atataattaa taattgtttaa tttagaaatc acaggatgt 113700  
tgaatttggg atggggaggg agacttttatt tttgtatgtgg tttatagtc gcaaaagtgc 113760  
tateccctcaa gctgggaagg tggctctggc caagccacca aacaggtctc tggaaacggg 113820  
aggggttggg tagaagctt atacgaacag atggctaaa catacatgtt tcaacacggtt 113880  
cagggggagc aatggatatt catgaagaca gtcctgacac atgttattt aacaacatg 113940  
catgttaacat tggccatgtt cacctgggtt tgtagaccta atatttaat gtattacaat 114000  
tagggcttat aatccaagg gtcttctcag gacacaaagg ccagcaagtg agcagccct 114060  
gtacaccggc caggtccagt ccatggctgg tggatgttcc atctggagaa aataactgaa 114120  
atcagtcctc tatgcaatca aagccgttagt taaggctgtt gggcagggtt ctgttctcc 114180  
gagtagatccaa gctgcagcca tttaattgt tttcattttt cttaactcca ggccagttact 114240  
ggtttagctg tagacaaaaaa gaagcacctt gcagcaggga gaacagatgt gattctttaa 114300  
gggttagagat gcaggcctga accctgcccc ggcacatggcct tcgatcttt ttaattttgg 114360  
tgtcttattt ccacaaggag tggatgttgc cagaatgtac accttttattt tattgtctgt 114420  
actcgcccg tggctgtctaa accaaaaaaa agggggagta tggatgttgc tggctgaccc 114480  
cctgtctgtt tcaggccagg aactcgtttt agggtttttc tggggcccc ttagcccaga 114540  
gagggtctgt tcagtgagtt ggggggttta gatgtttatt tttgtttac attataacaat 114600  
attttaaaa atcccttcat gatgttcttct aagccttaac tctcagctgt tacagatcac 114660  
atgggactca ccccatggct gtcaggatg caccatcgcc actggggatg tcccattat 114720  
gcacccttag gaggcttgag ttctgttata ttccagaatg tgaattgtgg gtgtgtgcaa 114780  
gagagagcaa ccctggggagg tggggcaagc acatggaaatg atgcatgccc attgtgtgagc 114840  
ccttaggtcag ccattgttca aggtaaagta cacacaaatc caccaggatc ttctaaatgt 114900  
gcagacactca gctcagtggt tggagcat ggcacagac tatgtttcta gcaggttgc 114960  
acgtgaagtt gacaatgcag gtccgcggac cacacttga tgaacaaaagg cttttttct 115020  
tcttcccccac agagggtgccc tcagaagagg agatcagact tagcaagatg gtgatgaaat 115080

tctggggccaa ctttgctcgc aatgggttag gctctggca aagacacacgc acagctgtg 115140  
agggtggggg gcggggcatg cctattggga aggggcagct tctaagggttc tagcgatcaa 115200  
acttctgacc ctgtgaccat agcaactctga caatgagagc tctctacaaa tggagaggcc 115260  
gcccccggag atagtgaact cccccgtctggagatatac aagccttgc acggagataa 115320  
cttggcgctc ctcacacatc tctgaagatt gttggggaca cacagcagct ttggggcaat 115380  
tctatttgc tttgttcca gaaacccaa tggagaaggg ctgcgcact ggccagagta 115440  
caaccaggag gaagggtacc tgcatggtg tgctaacacc caggcagccc 115500  
ggacaaggaa gtatgtttct ggaccaaact cttcgccaaag aaggcagtgg 115560  
ccagatagaa cacattgcgc tgtgaacgga aggtccatcc agcctggga acctggagga 115620  
gcaaagactg ggttcttttg ccaaaggat tcaggttca gaaggcatct taccatggct 115680  
gggaaattgt ctgggtgtgg gggtagggg gcagaggctea tgaaggagca agtttttat 115740  
ttgtgacctc agctttggca ataaaagatc ttttggaaagc caaatcactg cttgtgtt 115800  
gtatttagaga ttaatccatc ctcctcagag acagaacgat gatgaaagag gcaatgtgag 115860  
aaggaagctg gcttgcgtgg gnatggcctg gcctcaggac gagtacagtc cagaggctg 115920  
ggtcatggac agtgctcagg ggagctctgg gcctactgca tggctctgag cccccaagaa 115980  
tttccaacaa taggatttag gattggcaga gtgcagcatc cctatccctc atttggatct 116040  
gcctatggaa atggaaatgg cccagctga gaatttgct ggatcaggga agagagagag 116100  
gtgccegggt gatcccgtgg cactgttggga tggcccttat tgactcttgc acaggtctgc 116160  
cacacccctcc tcagtatgtta cactagcctc cttagacccct ccctgaggct gtctcttca 116220  
acagctggtc taaactccct ctgtAACCTG gaccactct gttggggca ctgaccacct 116280  
tagagcaagt eteeagagggt tcatctaat actgtgtt tcagaatcte aggggtgatt 116340  
tctggattct getagaatgt gaaaaactct aaagagtgtc actctgcct tatcagcaag 116400  
agaaaaaagct ggattgtcct caaaatcata acttttccata ttgcccaggaa gaaagatgg 116460  
ggtagatagt cagacttagag agggccaggc atgggtggctc aagcctgtaa tccagactt 116520  
tggggagccg aggccaggcag atgataagggt gagaagatcg agaccatcat ggctaacaca 116580  
atgaaacccc gtctctacta aaaatacaaa aaattagctg ggtgtgg 116640  
tagtcccagc tactcgggag gctgaggca gagaattgca tgaacccggg aggcatgt 116700  
tgcagtgagc cgagatcatg ccactgcact ccagcctagg tgacagagca 116760  
aaaaaaaaaa aaaaaaattc gccctggca gagctgcagg ggagggtggg aagccgactc 116820  
aggccctgca cttgggttagc tgccccaccc ggtgtgccc caggtAACGC atgtacagga 116880  
tgagcctccc ttccccccagg agggacagat cccactca gtccttca tttccctgc tggggagaaa 117000  
aaaagttgt atcaagactg tgcctcatta tttccctgc tggaaaggc aatcattgc aaagagctt 117060  
aaaacctacc ttaccacttg attgttcaaa aatacaaggg aattcattgc aggaagggg 117120  
ctgtgctcca tgaacggggt ggagctcaag tctgaaatata aaggatggg ggggcccagcc 117180  
atggccagcc acaacgtggt ggaagtgtga ccctgagcag tgggggcaag gcctggagga 117240  
cacgggcagc agggctgggt ttggcaagggt tgctggagca caccgtgggt gataatgca 117300  
cagctttct accttgacat gtagggaaaca gacttctctc tttatagggaa tttatctatc 117360  
aaaatgtct gtctacctat ctgtctatct attatctatc taccatctat caattatctt 117420  
tctatcatct attacctatc taatctattt atttcattaa ttacatttt ttatgtatt 117480  
gtatTTcaag ctcttattac ctctgaact tttcatgtga gagactacat ttatgttcaat 117540  
atatgctta gtaagtttctt agttgattt ctcttagtac atatgacaga gtcctgatt 117600  
aaatcattgc tgcatggat catttattt ctatctgtt actataattt atgtgatcac 117660  
cagtaatttt atctgtatca atcttgttcc ctgttattaa taacagggtt ttaaggtctg 117720  
gtacaacat ttcagttttt tattgaacat aacatacata taagaaatatt atatatac 117780  
acatacacac aaacacacac atgtatgtt tatattatga cttgataact tcactaactg 117840  
atcacactgt gtaatttagga cccagatcaa gacacaatatt taccagcatc ccagaaggca 117900  
catggagctc aattccaggc cctgctcaact tccccctct tgcctatcta cccaaaatgg 117960  
tcaccacagt cctgatgtct agcagaata tttcttttc caggtttgt gctttatatg 118020  
aacagaatca catactcttgc catctggttt cttccctca atattatgtt tatgagattc 118080  
acgtgtattt ttgtatgttgc ctgttagttt tcatcattgc tttatgtca gtcgggctt 118140  
ggatatgtca taatTTactg gtgttagggca cttggagaat gtatttagtct ttgcata 118200  
ctgtaacaaa ataccacaga ctgggtggct taattaaactg aaattcgcatt caaacaagga 118260  
ctcaaggctt gaagttccag aacaggacac aatgagaagg cagcagtctg ttgcata 118320  
ggagagccct caccaggaaa tcagtcagct taatcaacta aaatttgcatt caaacaagga 118380  
ctcttaggctt taagatccag aacaggacac agtgagaagg cagcagtctg ttgcaaaaaa 118440  
agagaggcctt caccaggaaa tgagtcagct taatcaactg aaatttgcatt cgtttgcata 118500  
ggaagagagc cttcaccagg aaatgagtca gcttaatcaa cttaaaatttg ctgcaaaacaa 118560  
gttctcttaga ctagaagttc cagaccaggaa cacagtggg aggccagcatt cgtttgcata 118620  
ggaagagagt cttcaccagg aaatgagtca gcttaatcaa cttaaaatttg ctgcaaaacaa 118680  
gttctcttagg ctataagttc cagaacaggaa cacagtggg aggccagcatt catttgcata 118740  
ggaagagagg cttcaccagg aaatgagtca gcttaatcaa cttaaaatttg ctgcaaaacaa 118800  
gttctcttagg tttagaaatgtca cagaccaggaa cacagtggg aggccagcatt catttgcata 118860

gttctcgagg ctagaaagttc cagaccagga cacagtgagg aggccgcgt ctgcaaccaa 118920  
ggaagagagc ccccaccagg aaatgagtca gtttaatcaa ctaaaaatttg catttcata 118980  
gttctctagg ctataagttc cagaacagga cacagtgaga aggccgcgc ctacaaacaa 119040  
ggaagagaac cctcaccagg aaatgagtca gcttaatcaa ctgaaaattcg catttcata 119100  
gttctcgagg ctagaaagttc cagaccagga cacagtgagg aggccgcgt ctgcaaccaa 119160  
ggaagagagc cctcaccagg aaatcagtca gctgttctca tttaatgttc tcactttaga 119220  
agatcatgca agggacaaaa tctccagaat tttecttggg cggggtcaca gctgggttgg 119280  
gaaagttgta gccctctga aacttccgc atagctgtcc ttctatggag gccaggagcg 119340  
catcgggaa ggtacagtcc acagttcccc tccatccac cagtcaggct ccaagggttc 119400  
ttcacatcca caaaacacca ttttcataga tcaatagcac acacaccaag atgcgcaat 119460  
tcaaaccaga tacccaaattt gcactactt attgaatttga caaggattt taccactact 119520  
cttttgggtg tagtgcctag tggcaagaat atagaaaaacc aggaagtatt cagcactgat 119580  
gtgacagatc agtagctct gggatttggg cagaattttg tgcaagtccag ctttttgag 119640  
aagcttatgt catttacgct tgctgagtcc tggtaagcc ccaagccaa gctttcacaa 119700  
gctaggactt aggccagctt gaaaaggaga agtttatctt ctaccctctc aaagagggtg 119760  
taggaggttc cccttgagag taaccactgg tccctccaga tggcttggct gcttctgcca 119820  
ggctctactt tcagaaatgc ctttcattgt gcaattatca gaattaaagc ctttcagtgt 119880  
ctccctcatttgc tccagggatg aagtctgttc tccttggctt ggcattgaag ctctctgtct 119940  
tccattcccc ctccatttgc aactggcctc ccaagaagc ccctgaatct gccttggttc 120000  
aatgctaatt tttctctgc ctctccaaat ttgcccattc tctcaatacc tggttaccatc 120060  
aagagtctatc acagttttgg gcattaaeat atatgaatat tgataggatc cagggtcaaga 120120  
aaacacacag aacatgcate tctatgggg ccactctt accctggatg ctttaatgt 120180  
aatctgttagt ttgagtttcc agggctttt ccagattata attcaatctt cactttctg 120240  
tgtcttaattt tttcatttgc ttcttgaatc atcttttttcc ccatatttatt cttaacaggc 120300  
taaaggaaagg cttaatagag tagccataat gaataggatc tgggttata atcgggttt 120360  
tgtgatttga atcaaagaaa tgcaaaaaact tagtgttat cagagtgtgc tgcaacttatt 120420  
cctggaggtt tgcagatca ttttagatgg cacacaaaact aaaaaccact tatagaatgg 120480  
ctgttttattt attttgcgtt gtattaggaa aaaaaccctt actatcaagt ccattggtta 120540  
atggatatta cctgtgacaa ggattgctgg cagtcgttta aaatctgtcc caccttcctt 120600  
ggtacacagc cagattacat ttccagctt tcatttgcatt tagattgaac acgtgaataa 120660  
gttctcacca atgtcctctg agtggaggtg gagagtgcac cagccaggcc tggccctac 120720  
aaatgctcca tggtcacact tctgttctg cctttccag gtacaggcata attgacacct 120780  
atggcaactt tagaaaccat gagtgaagga aggcaaaagcc accatagcct agatcaggac 120840  
ttagtaaact acagcctgag ggc当地atctt ggcctactgt ctttttaaaa ataaagttt 120900  
attgaagcac agtcatgccc attggcgttag gtattgttta tggccgcct tactaccaca 120960  
gcagtcgcca cagacagcccc atggcgtca aagtccaaag tccttactat ctggcccttt 121020  
atagagaaag ttgtgtata tcctaattttt gatctctgaa tgaccatatg gacaacagcc 121080  
accttgggtga cctgaacaaac gttcttagtcc ttacccatg cgaaaaataa gccgttggaa 121140  
ttctgggcctt atttgttacc atagtttacc ctactctcac taataattct tgctcagcag 121200  
tcacaggggtg attgtactgtat gaatgtacat ggcccgattt ccgggttggcc ggcgcattga 121260  
gggtgacttag ttatggccat gggagtagac ctctctccccc taagaccac caccaggcca 121320  
aaatttttc cagatgtctt gaccgttag tcttaggacc tgatgtgaccc caggttagtct 121380  
gaccggctaa atataacata gcatcatggg cttggggaaatg tgtaaacata atacaatttc 121440  
tgc当地atttga actgaatgtt aacagaaga cattccctga agcagaagaa aatgacctt 121500  
gtgatgtatc ccttgc当地t gatgggtatc agttcttca tgtaactaac cccttgc当地t 121560  
gtcacccattc tgggtgttcc tggttcactt ttccatttga gtgactttt tcaatttata gttttgtt 121620  
tttttactgg catttcttta tgcacccattt tatttttacc atcattttaa attagaagtg 121680  
gcagttacac attttccatg cataccctta atttatggca gtttatacag tttaaaaat 121740  
tatggaaatg gtataaagtc tccttttga gtgagcatgt taaagaaaa gtcttgc当地t 121800  
attnaaagaa aactgttcat agaagttacag acgatatgtc gatgaggcaaa agagtgc当地t 121860  
tattagttgt agaataagtg aggtttccaga aacactgcac atgtccaggc tgcagtggag 121980  
aatgtcgtag aatccctggat tcatagatgt tggagccacg gtgaagggtg catgagagag 122040  
ccccctcccc atagccaccc cctgc当地t cacaaggaaat tcccaaattgt caccaggctt 122100  
attctcagac ttctgtctcc catttcaggat ttctccacca caaaatctac acctgatcga 122160  
tcccacagtt cagagacaaa gctgagttgg gggctcagca ggacatgggc ttgtgttgc当地t 122220  
caatgcctgc tctaatttata gctttccata tatctgtca gtaaaactgtt ggaggtggag 122280  
aggtttgggg gagttcattt gaagccccca gatatgcccc ctctcccaag tccttccccc 122340  
tgctttagaag ttaaggccag ttccctcaggat ttactttcc acgtcatata gttccacatg 122400  
ggaaaccaga gggattcccc agggaaaagc aatgacccaa atcaactgc当地t 122460  
gagacgtact gcttacagct gaagtgtatc gggggagttt tatgtattaa gcaaaaatgt 122520  
gatctactgg aaggcttggt aggctccagc ttcacccatc acaatctgc当地t 122580  
gaaccagaaaa tggcagtc当地t caggagtggc caaaaaaaaattc tctgtttgc当地t 122640

gtgtcacaag caggagtgtg attgcgcagt gtttcaggag aagaactaat ctttatcatct 122700  
tatattttgt gaatacagca ccacaaaatc ttcataaggcg aagagccagg actgtttctc 122760  
agggtgcaaa ggtcagctga ctaaggcaac agggcaggat ggttaacagg cacgtgcatg 122820  
tgtgcacatg tgtgtcggtg tgtgttggt gctgagtgag tgggactagc tttgcttct 122880  
acttaggagg accaccaga ttgtccctt tgatagaga taggatgct ttttattagc 122940  
atgcagttt tcaaccagg ttcgtcctg gataaaagta agggaggaac cctaagctca 123000  
ggtcaactt ttagagtcg gttagttctg gggactgatt ctcatgctgt cagagcatcc 123060  
tcattccat cacagaatgc ccctcaccag cctgcacgtg gctagaatga gtgctaatga 123120  
gcattccctt ttgaatttgg gtctccagaa gtttcatttc agatacaact cacggcctt 123180  
ggcaagaatc cattagcagg tctggactg tcatgtgcct tatggctgtc cgttgcca 123240  
tcttcctga tgtcaatcgt ggtctggact ggacaaggc aggcttgcct cagagcatcc 123300  
ggaaagtaga acatggctcc ccaagttact ggtacctggc tctcatcttc gtgacattt 123360  
ctttttttc ttttcttct tttttttt tttttccct ttctctctt cctctctt 123420  
cteetctcc ttcttagtct tttttttt tttttttt tttttttt tttttttt 123480  
cttccctttt ctctttttt ctcccttctt ctctctctt tttttttt 123540  
ctctttttt ttttcttctt ctctttttt ttcttcttctt ttcttctt 123600  
gatagggtct tactatgtt cccagttgg tcttgaactc ctctctcaag caatcccccc 123660  
accttggcct cccaaagtcc taggattacc aagcgggaag gtttgcaca 123720  
tcccctggct atttctatcc cttagccctt accatgtctc gcctgggtca atgagctgac 123780  
aaggcaattt gccttagata aggctaccaa tttagaatatc tccctgtatgt ataaaagcaa 123840  
gagaaatggc tgccagccac actgtgtctgg aaggcagaaa cctcaagttact tgggtctgac 123900  
tttgcactg agttgtctgtg tggcctttagg caaacccccc ccacatctctgg gccttagtt 123960  
cttttggaa taaataacgg aatttggatgg agcctatgtt ttatgtctact taggctgcca 124020  
gaagaaaaata tcacagactg ggtggcttaa acaacagaaaa tcaatattttttagg attgtagagac 124080  
agcattaatc tcatgggtt attttggatgg cttagactg gttctgtcat aaaaaactct 124140  
cgccatagtg tttgccacac agtaagctt cttagaaatat ttgtcaatga atgtatgaag 124200  
aaataaaaatg gggaaatgca aataagttaa aacactgaca agattacagc cagggaaatgg 124260  
ctgttgaat tctaatttagc tatatagcc tccaaatattt tcccatgcaat ataaagacat 124320  
atgttactac caaaacggga ccatattata ctatctaga tttttttttt tatttcattt 124380  
tttttattgaa atataagtca catgtcataa agtttacccc tttaaagtgt acaatctagt 124440  
gggtttagt atattcccaa agttgcacta acatcatcac tattttatcc caggacattt 124500  
ttaccacccc caagataaaaa ctcatgccc ttagcagtca ctccatccatcc 124560  
ccccctcccc agaccctgtc aaacacttcc tgcctctgtt gatttgacta ttctggaaat 124620  
tacacataaa aagcatcata tgacatgtgg cttttgtgg ctggcttctt tcccttacca 124680  
taatgattt cagttcatac tacattgttag catgttcttc ttatggctgg atgatatgccc 124740  
tctgcacgaa tacaccacac tttatttaca cattcatcag gtcatggaca tgggggttgt 124800  
ggccacttt tgacttaggtt gaatgacact gctcttggc tacaagtttt ttatggacat 124860  
gttttcagtt ctgttgcggta gacacctagg aggggaatgg ctgggtcata tggaaactct 124920  
atgttgaatt ttggaggaa ctgcctacac cgcacaaacag tttataacct gtttattttt 124980  
ccttcaccaa cgcatccctgt cttcattgtt aataagtagc tgcacatc actatttttga 125040  
gtgaatacat catatttctt tagccagcgg tattcacatgt ttttttttttgcattt 125100  
gttggacatt taataatccc atggaaagagg tttgagtgtac ttttttttttgcattt cccccagcgc 125160  
ttgttaatga cagtttccca ggtgtccca gggactctg ttttttttttgcattt atttgggtat 125220  
ttcacattgc cttagacatca cacctactgc tccctccaccc ttttttttttgcattt gtctacaatg 125280  
gtgaaccctt tgagaagctg aaccatgtt tgaattgacc ttttttttttgcattt ttatatacatgg 125340  
ccagggtcct ggcatttgg taaaatgtca cagaatggat gggtacatga atggatggat 125400  
gattaaagcc aggagctatt gagagatggc atcattttta cattctgtcc aaaaatttcct 125460  
gttttggaaag gttagtattt acctgagatt ggaagtgtgt gagaaggctt ggctagttgg 125520  
caggatactg tgaagctaat tcaaggcatca gaaagtggac tggataaaaat ttaggatcgc 125580  
ttccaagctt gaaatcctgg aacgctatga aacacaaggc ctggagactg agatatgtcc 125640  
taacttaccc agctgagctg tgaggtgtga gtggctctaa cattttccag ttgtttctga 125700  
ggacctcaga tcaaagctt ctttgccta aagcatctg cctgtgttgc 125760  
ggggccctca gagagcacta aggttagagt cttgcacagg tgacaccgtt atgcccacaag 125820  
cagttggcg agtttacagc tctctgtat ttttttttttgcattt ggtttgtatga 125880  
aagagggtaa actgtgagtg ggcgtggctt gaggccccac tggaaagccca gggagatctg 125940  
gggaaaggga gggctttctt gatctctccc aatttagagga ttttttttttgcattt ggcagtgcag 126000  
ggcggttaact gggggccagg gtggccctgg ggttgacacag cacactccctt ctgagctgca 126060  
cgagacactc gcaggcccccc ggaactgtcg cccttccagg atgtggctcc ctgcttttgc 126120  
cctggccact ctgcgtctttt cccggcttgg ggttgagttcc ttctgtatgttgc 126180  
ggcactttt gaaatccttg ttctggcccg aactggggcgc agatgcgttag aaaggcaaaag 126240  
acacaaaagg tccggctccg tggcggggcg cgacactccgtt acttggattt ggacttggag 126300  
cagctgagcc cagccagctt gggccggcg gagacacagg gagggtgaac atgtctgagac 126360  
cgccctgcac tgcttgcggcc aagaaggccg gcaagctggcc cacctcactc cgcacacaag 126420

aaaaattttag gcagctcagt ttattgtccc ataattcgtc ccgttatggc tcgataacgg 126480  
atagcgctc aggagaatat taagagcatc gactctggag ccagagtgcc tgggttcgag 126540  
tccccgttgc ggcttcctc gctgtgtgt cttaggcaag agactgaget attctgtgtc 126600  
tgggttaccc cctctctgaa acagaggtgg cagtgttacc tacactcaact ggcttgggt 126660  
aggagggaaat gggtggttgc ttctaaagca ctcttggaaag cgccctggat 126720  
tggaaaagggt gttgataaat ttaaaggcgc tgtttaaaaa cgtagtgtat 126780  
ttttagctgt ggtcaggcca ctatatcagg acctcttgcattaaaaaaga 126840  
ctcatgttct caacaggagg gggacaccag tgcgccgggca acaaggggaa 126900  
ctggggaggg gacaggcg 126960  
gaagagggaa ggcaggcg 127020  
tggggcacag gggctgttcc taattttt 127080  
gggttagggc cagggcatgg caaccgatc aaagaggcag ttgggtgtg 127140  
tggctggacg ctggggaggga cagttctcc aaggtaaca 127200  
tcagaataca gaaaacaaaa cacatgtac atagagggt 127260  
accccatgc cattttatag acagagaaac tgagactcac 127320  
agggtcaacc cgaaaatcat gcctaggtct gtctctgggt 127380  
ccccgtctgc atccctgttct cctctggca gcctgacact 127440  
gggaagggca gagaagagag gaagcttatt tgaaactgaa 127500  
ctccctggcaa tgccatccat ttcccttcctt 127560  
tcagtttctt cctctgtaaa atggcatgt tgatgcctac 127620  
atggatttaa acaaactgga atgcatgeet 127680  
cttcatataa catcagcagc aacttgttctt 127740  
tcacccactt ttccaccctt ggcatactgg 127800  
tccctgagct gacatgacc agcccaagtgg 127860  
ccctgaatc ctcagcaatc tttagtggg 127920  
acatgggaaac gttctctc ccctattctg atggatctt 127980  
ctgtgtttga cttttgtttt ttttcttcc 128040  
atacacatcc accgtatgtaa 128100  
caggcttcct tccagctttg aagtgcgtc 128160  
caactcacatc tccaccggc 128220  
gtcttcttcc cttccattt ccccccac 128280  
tctttcttcc ccctccctcc 128340  
tgcctgectt cttccettcc 128400  
ttccttcctt cttccettcc 128460  
ttctctctctt ctggaggagc 128520  
ctattttcag tagagagggg 128580  
tcaaatgatc tgccctgcctt 128640  
ctggcttcca agtctttcaa 128700  
tttttttatt taaaattttt 128760  
gaaatcccat acagtgtga 128820  
caccacccat tgcattgtcg 128880  
taatttagcaa caacaacaaa 128940  
aataagatga gacatggat 129000  
gattggatat tcccctttaa 129060  
ttttagggag gtgttgacgt 129120  
gctggaaatc atttccttag 129180  
gacctgaggg gtggcagca 129240  
aggccagttt agtcccatt 129300  
atttcagctc agtgaggaaa 129360  
ccaccagaag aatcttcctt 129420  
tatttgcctt taaaagaaaa 129480  
gtcggtctc attccaggaa 129540  
ccatgcccccc ttccccaggc 129600  
ttctctctgc tggtaaccac 129660  
gcaagtccca gtcctccat 129720  
ctagactgcc ttatgggtac 129780  
caggtgtata tggaccctt 129840  
tttttcatcc ttcattccag 129900  
cagagacttc taagggggaa 129960  
atttattttt agctggatgt 130020  
aatgggttag ggaggacatt 130080  
agagggtttta ggtgacttat 130140  
atctgggtcc agcttttgc 130200  
ctctgatgca tcctgattt 130200



tcatttcattc ttcttattgtg tactcagtgc cccatataca cagtttagacc tggggcttca 134040  
 gggaaaggag gaacatgaat ccactccaca cagcccctgc cttaaggat ctgccttct 134100  
 gggctgtaga gacatatcct cccttcagca ctttattgca ggccagccct caggtcagt 134160  
 cttcacacaa agatgaatgc acactcaatc cctccccagg aggcaggcag ggatttaggt 134220  
 tgtgggagaa acaagggctc tgggaacctg gagtcaggag aacctccagg aatggccaca 134280  
 ggctctagaa ctacacggtc tgggtttaaa tcctgttct gcttttact agctgagaga 134340  
 cttgggagtt tcttaacttc tctaagccctc tgtttctca aaatggaaat catcacatat 134400  
 gatcagtcaa gggtgaccac taagcgtat ctcagtcct ggctaaaaag gcagagggcag 134460  
 gtcataccctg ctgccttaac agtggactca ctgactgtg gcccggcct gcagtgtgt 134520  
 gggcagctca acatgtggac tctggaggca gactgcctgg gttaaagtcc tgctgttacc 134580  
 acttttgagt tgttaggacct tgggcagggtt aagtgcctcc attttccac ctggataatg 134640  
 ggacatttac agtacactacc caatgtatacg tttatttac tttgtttaga acagcacttg 134700  
 ggacatagtt tatgttacga gtttttttat atttcatgaa taatattatt acaatatcat 134760  
 tatttttagcc actctcaattt ctccccact atgtggactt taaaatgca agaatcatgc 134820  
 atgaggaattt gtatccactc tcatcctcca gtattagcag agtccctggc acatgctaag 134880  
 ttctcgacag tgttagtcca ttgactgaag gcacccctgaa gtgggtgggt tttaggctgg 134940  
 gttctgcagg gtggatagga ttggggatg cagaggcata aggaggcatt tgaggaagag 135000  
 acaccatcac aggcacgtgt gcttcctcgag acaatcattc atgcacagag aagtttactt 135060  
 caccaagaga tagttaactg agatgaagct gagatacaag ggctgccccca tgggtacgt 135120  
 gagtgcatga atagtctagg cttgggggtt atgggagtgt cctcccaag aggacatct 135180  
 tagcctttgc tatgcccattt atgatgttctt cagatcataag agccttttcgg ggaggaggca 135240  
 ctggaggctg ggttagaaagg aaggagacgc cagggtatgt gcagtagggt ggtggcttgg 135300  
 gtccttcagg gggaaattt gcaggagaga gattccctt tgccaaagggtt ctgggagctg 135360  
 gtgaactttt gataggatcc tccttcaggat gtaaccaaca ggttaggtcac caaaacagac 135420  
 atcttcttagt tgctccctgg ctctgtgtcc tgtaactgggt atgttgcctc ctctctgccc 135480  
 aggtgatggt gtggatccac ggaggggggc tgatgggtgg tgccggatca acctatgatg 135540  
 ggctggccct tgctgcccattt gaaaacgtgg tgggtgtgac cattcaatat cgctgggca 135600  
 totggggattt ctccaggtaa gaaatcgac tctccctact gcactttggc ccccagaacg 135660  
 aggtgcttag gacccttcg tggcatgcc agccctcagg ggagcttagc tagttccac 135720  
 agtaaggcat ccaagccctt tcgttaattgg acactaccta ccctctcaact acccagccac 135780  
 tcatccactt gcctctgagc ttttgcattt gctttccctt tgccctggaa tgcttattct 135840  
 atccgaagaa cacctttca tcctgcaaga cccagcccccc agttacccctc actgaaagac 135900  
 tcatctcctc ttccacccatg tttctccatgc acattgcctt tctctgtcat gacacttagc 135960  
 agtcagccca gcaggtgaag gttgacacat ctgacttctc atggaaagga gggaaaggggc 136020  
 agagtccacag agggagctca gggcatgttg tgggtgaagg aatgggggtc gcagatgggt 136080  
 gggtgtggga gcatctgacc cttccctgtg ggagtgttgg gacccactca gtcatttttc 136140  
 tgcttggaaat ttggcaagtg tgggaagccaa ggatggagtc ttcccatcatg gtcctccatgg 136200  
 ggacaggagt cagatctctt tcaaggcgcac actgttatga accttttcttta aggttctctt 136260  
 ccattccatgc cagtcaggat ttttctgtgaa cacggccactc agttggcttc attgcggtca 136320  
 tcaatgacccat cccctgttc tccacccaaat ctctcaggac ctcccagccag cagcagatgg 136380  
 caactcagcc tctgtgacat gtttctttt cagccctttt ctgggtcttc cttccctccct 136440  
 gttccacagggc ctctttgtc tccctctccc tccttactaa ttcccagtgatc tcccaaggag 136500  
 cagccagaggc ccctgttcc agcccccaccc acctttgaag cccacaggca tcactcaactc 136560  
 cttccctccccc accccctggct gtctaaagggt tgcccccactc ttcccaggaa caagttgaat 136620  
 ctttgactcc cactgccccctt ccccaacaga gacccttc tctcccccacc acccctccac 136680  
 tcagcttctg ctgcacccatc ctccccctggg ctcaggagaa ggccttggg acagccccgg 136740  
 ctgtctcttt tctcacaacc ctcttggctc gccccttcaga atccactcag agtcccttac 136800  
 tttgcacccctt ttccctggct ctagcccaat ccaaaagctct ctgtctgtca ctttgattat 136860  
 gatctttaac actttcagat ccctgcccact tttatataaa gctgagttgc acagtagcca 136920  
 gagtgcatacc ttaacacatg cattgaatca tgcgtatgcct ctgcacaaaaa ccctgcagg 136980  
 gcttccatgc ctcccttacca tgacagccga agttttgtcc agggcccaagg gcccctctcta 137040  
 gtcacccctc ctgactcaca ctttcttca ctggggccca ggcctttgc acttgcctt 137100  
 ttttctgcctt ggaatttccctt tctttggata tttacaaggat tcatgtgtc attgtgttgc 137160  
 ttttatgaaat gtctttgcctt cccaaacccatc aaatgtcaat gcttccaaaaa agccttccct 137220  
 gattggatc tgaaatggca cccctgtcc cactccgtt ttttccctta ctccattgtat 137280  
 tttacccatgc tgcactttga ctacccgtaca tcattatatt ctctctatgt atctgtttat 137340  
 ctgtttgtga tctgttagtgg gaattcaggat tcacccatgg ttttgcctgt tttgtgttca 137400  
 gatgtgcctc agtcataag acagcgtcag gcatacagta gatgctcagt aaatagttgc 137460  
 cagttgtgtg aatgtagaac catacatcac cacaatgtg tactaatgaa agcagggtct 137520  
 cagagatgtc gaagccccaggc cttattcttta agggccact gagaaccctt agcccccattc 137580  
 gtggccctgaa aggttctgca tgacatctt gctccccacc ctcacccatgt tctcttccctc 137640  
 acagcacagg ggatgaacac acgggggggacttgggtca cctggaccag gtggctgccc 137700  
 tgccgtgggtt ccaggacaac atttgcctactt ttggaggaa cccaggctct gtgaccatct 137760

ttggagagtc agcgggagga gaaagtgtct ctgttcttgt gagtttcct gtcaccaggc 137820  
 ccaacccac gcttgatgtg atgctgatga gaccttgg acacctgtca atccagctat 137880  
 ggatacctt gattacaata cctgaattca ggactggccc tactcacagc ccagcatcg 137940  
 gggtagaaa gctaaagacc agcttcctt ggccccagg aagctcagag ctcagcttag 138000  
 tgcctgggg ccatatgaat ctccagttgc agctgcaat ggtggcatt tcctcttcca 138060  
 gcttgggtga gctctcttc tctctcttc tttctcttc tccttcacac tcattttaa 138120  
 ataaggactc acatccctt tcttggaaag taggaatagg cataaattat gagaaggc 138180  
 aggagagag aagaggtgga cagaggtcat tggttggcta aaccagacct acatgtggag 138240  
 gggacatgga cactgagcag gctggaaatt cctctgggt ggtctgatgg cttgtccatg 138300  
 cccaagaagg aggcgacagt ctttgcact gtgggttcca gtgggctagg ggaggcaggc 138360  
 agaggaaggaa gggatggagc cgccgatagg gaggatggg gcaggggttg tgggtcatag 138420  
 acacaacctt gggtgtgagg ggtcctgtcg ggattggga ttgggttcag gagacactgg 138480  
 gggatctggg atgaaaaccc agatgagagg tgctgggagc tggatgttgc 138540  
 ctggaggtgg gcagagggtc agcccactac tggattcctc agtcccgtgt tgggtttata 138600  
 gtggagtaga tctagcctgg aatagcgagt gagtactga ccccaactcct gagcatgaac 138660  
 ttcctccccc tccactctgc tgcagggtt tgcctccatt ggccaagaac ctcttccacc 138720  
 gggccatttc tgagagtggc gtggccctca cttctgttct ggtgaagaaa ggtgatgtca 138780  
 agcccttggc tgaggtaggt ctccggctgg tacgtctccg gctggacacc cccacccct 138840  
 tggctctatg ctctgaatc ctcaaggatc tctcttgc tgggtttag ctaatgttct 138900  
 cctagaatca ctgaggcacc aatggctgag caggaaaggc gaggagacac cttgtatcagc 138960  
 gtcccagttt cacagccagg caaaccgaca cagggttgg aagggttgc 139020  
 caggtgatca gggcagagct gggactcccg ctatggccc tagcaggccag tacagtgc 139080  
 tatctgtgac cacactcctc ctatgtgcca gggcttgggt gcatgttggc 139140  
 gtcttgc tctctgggtc tgcctaatgg ctggtaagt gacaaccag gattgaaag 139200  
 cagacaaggaa aattttaggt tccatgctt ctatcccagc tccacccatc atttcttgac 139260  
 acattcacct tgagatgatt atgtccattt caatggagat aaggtacgac agatgagaga 139320  
 ttacataatt gaccatgtt acaattgaga ttagtaacag aggcaacgct ccgtgggacc 139380  
 tggAACCCAC acccacgggt ctacagtate ttctgtgtc ccctgcaact agtacaagtt 139440  
 gggcttggga tagaatgcca ctttctt tgcattgggg tctgttgc tctgtatcac aagggtatgtc gctcttgaac 139500  
 cctctgtgt catgggttac tgcctgcgac agaagacgga tgctgggtgc aaaaccacca 139560  
 cattgaaaat ggtaggttgc ctgttccctt agccaaacc ctgtaaactt ggtcccagac 139620  
 ttcttcattt cagctgttgc ttgtcccagg gacagttcc tggacaatt tctcaactct 139740  
 cagtatctga atgggaatc tgattttgtcc ttttttattt taaaatgcca caaatgtaaa 139800  
 aaaagaaatg caaaaaataa catgataaaa aatttgcataa caatccccag tcctgaccaa 139860  
 aattttatattt ttgcatttgc ttgtttttag atgtatattt aagaaatata atgttacata 139920  
 tttccagggg acacatcat cctgaatttgc gggatggag atataatgc taaaatgtt 139980  
 cagaaagatg tccaaatttgc ttttgcatttgc cttagaaact gtcgttatttgc 140040  
 tggccaggattt ttcgcatttgc ttgcatttgc actcgatgtt catcttagga tagtcatcca 140100  
 tccacccattt cgttaatccg tctatctatg attgtcttgc tccatctatc gttcaataat 140160  
 tcatccaattt cactcatatc tttttatcaa tctaattgtca acattttcat aactttgtat 140220  
 ttatcttattt tcaatccattt caccattatc ggatcatcca gccacccat atctcaactc 140280  
 catcaccatc tcctccaaaa tcaacaatcc aattatcgcc tgcgttgc ttttcaccca 140340  
 ttatattcatg tatttcatttca attcaactgt actccatgtt ttgaccaactt ccatccatcc 140400  
 ctccattgtatc ccatccatcc atccatgtt aatatgttgc ggtgggtgtt agaggttagca 140460  
 aaacagacat gaagtggaca tagtccctgc tctcaaggaa ctatccaaag agaaatacat 140520  
 tcatataactt cgcagggttgc gtatgggtgc agcacagagg ggaaggatttgc atttgcatttgc 140580  
 tcagggatgc ttcacagaga aggcggagga gccagatttgc agaccagaca gtggaaattca 140640  
 ggagttcatgc cccttaatcc tgactccatttgc ttatcttgc tggaaaatttgc 140700  
 tcatttgc cattttaaaca gaggttacaa agacagataa attttgcatttgc 140760  
 cacagtccaa attagtccaca gaggcaacac tgcaggatccc agaaccgaca cctgggggtc 140820  
 tagagtatct tctgccttcc ctgttcccttgc ccatcttcac atattaggac ttggggac 140880  
 ttaggattgt tggatggcca tggcgttgc tcatcacagg gaagaccagg aggacaaaca 140940  
 cccagatgac acagcacccca gggccatttgc gaactattcc ctttgagggg gaagagtgtg 141000  
 aatttccaagg tcaggatgttgc cttggacttgc ctcccttgc gtcggatcc 141060  
 cagggcttgc ctctaccatc gactctgttgc tgcattttca tgagttgttgc 141120  
 atgggtgttgc aggttgc tgcaggatgttgc agtgcacaaa gtgttcaagg aatgaaaaca 141180  
 caactgtttt ctaaccccg gaaggaggca aatattccatc ctaattctgc tgcggatcc 141240  
 gaggacccat cttaaaaggaa aagagtttgc tctttggaa aacccatccc taagatccatc 141300  
 gacatttctt ttgagttttt ctgcatttgc gtggaaaggc acccatgttgc 141360  
 tccagttacac acacatgcgac acacacacac aaacacacac acacacacac acacacacac 141420  
 agaaacacat acagacacac acacacacag acacacacac acacacacac acaaagagcc 141480  
 acacacacac acactcatac acacacacac acacactcct ggcttagtggg acttcaatcc 141540



ctatTTAGT ccgtgtgttc tgcatTTTG tgCTTTTGT agtgatgtca ctgttttagag 145380  
cgaacccaag agtagegctg ctgtctggcg ttccctgagct aaacaggctg tgctgtgcct 145440  
tacgggaaag gtgcctgtgt gagacaagct tggatgaggc aggagctgca gtgtgtctgg 145500  
ccgtcattt ggtgttgaaa aatccacata atagcacatt cagaaaaagg agaaggaaat 145560  
tggccgattc atacatgagg ctgtgataga aagggtctaa gtaacaccta ttgtgtggga 145620  
tggagccgtg gaagtctct tcaacagaaa cccacacata aaagaagggt gatgaaaatg 145680  
tttgtggccag aggttgc当地 aaacctaacc cagttttcc cccttgagtg atgaccctgt 145740  
attctctaat tcagttactca cggggcttt atcagaagca actgccagga ctaccgaaaa 145800  
tcaattgtgg acacacagag gaaaatgcat gcacttcaa ttgaaatata tagacatgt 145860  
attttacata gataatacat gtatttcaat atgagtgaag atttcttct ctcctcatca 145920  
cctgaggcgt gtcagccctc gcctgaagtt ctgcccctga gtcatggaga cttaccccc 145980  
taagtttaga tcctgagcat gtgcagccat ggccatggc catgccgtc tatggtaactg 146040  
gtctcaccct cagacaggca gagttgggca catgggtgtg actaggagg gaatcacagg 146100  
tgctgcactg ctctctcccc agagtcacc cttctggc actgtgattg atgggatct 146160  
gctgctgaaa acacctgaag agcttcaagc tggaaaggat ttccacactg tcccctacat 146220  
ggtcggaaatt aacaaggcagg agtttggctg gttgattcca atggtgagaa ggcacatgtc 146280  
tggtggaggg actcaaccac cccatcagc ctcctgtct ctggcccag gaatgttcc 146340  
ctctccggc tgcaactctga gtcctggca gctgttccct tcagcaggag ttaacattt 146400  
cacggaaatc ttctccagga gggcacagtt ttcacccggg tatacggggc ctgggattcc 146460  
ctctccccag actctcttat tgtcttcca ttgaagaatc ctgaagtgtc tigtgtggg 146520  
ggggccagtag agaaaataaac tctgcagatg gaaaaacgga gggggcttag aaaaaaaaaa 146580  
gagtggagga gtcggagaa gcagtcgggg gcttcttgc ttcccacctc gggctgggtg 146640  
tgcgttaattt ccctgaaaat cactcatgt ctcatcacc tcatgaaaaa tatccaaaga 146700  
aagtggctt ttcttgagtt accattgact tctaggaaac agcagacatc agegtctact 146760  
aagagagttt atggcagag gaagatgagg atggaaaagg taccaatcg ggtgtatgc 146820  
tcaatacctg gtaacaaaat aatctataca gaaaactcca gagacccaaa ttacccatga 146880  
tcaaacctgc acagtttacc ccaaacctaa aataaaaagg gaaacaaat aatggaaaaa 146940  
agtaattttag tttctaaaatg aaagaagtgt ttccttcca gttgaagata aacaaaactg 147000  
accctggta aagcagtagg acagatttat tcagtaatat gattgaataa gggaaatag 147060  
tccagcgtgg agtggactca catccctgaa acaaaaagctt gatgacgtt cataggccag 147120  
gtgtgccaag gaaaacactg tggcttatgg ggagaggctt gttcatgtg actagaccac 147180  
ctggatgtct tcatcttggc tcacctgggg cagaaacaaa ctccctttat ctttaggaca 147240  
ggaagccatg cattagaccg caggaagaac ccactgaagt caggctctac tcttcgaca 147300  
gggactgggaa agatcaggag tgagctccct gaatgtttgc attgaaaaga gaaggctctc 147360  
aggtcctcaa gggaaatgggg ttgggtgtt gattcacatc ccaaaggggca gagaagggt 147420  
ttatcattgc aggttctaa agtaactgt ctatgtggg tcggggaccc ggctgtctgt 147480  
ctccaggttt tgctggagc agagtaattt gtcctggcag gtttggaccc tcccaggccag 147540  
ttatgttaag gatactgggg tcattctagg gacacagct taactgtcta gaagcaatgc 147600  
tagagattgg tcgagttccc gagtgcagag gtttgggaaag agttttatg tgcgttagaga 147660  
tgcgtatcc gcccctcaga aggatttcag aggttataacc aaagacccaa gccacgaaga 147720  
caggatttaa ggatttcag tgcattctgt acagggtgggg gtacttaggaa ggttctacatc 147780  
cttcccttca gggccctcta ttcccaactg gcttggcaga caccctgcattt cccatgtc 147840  
ctgaccactg tagggatccc agccacagac acacacacac acacgcgc acacacacac 147900  
actgc当地 actgccacag cttcttgc当地 atttttttt tttttgtaaa cacccttgc 147960  
ctttgc当地 cttagtttcc tggatataag cccatgttgcatttgcatttgc 148020  
agtaaaagact catgc当地 aaagccccca taatttagagg actttcagac tgcattgtt 148080  
tggttgttg gtcagtttgc ttcttatcat taattccccaa tgatcataa atgctgaact 148140  
ttttttttt ttttagcatttgcatttgc 148200  
gacagccatg tcaactccctgt ggaagtccta tccactctcc gaaggggcaac tggaccagaa 148260  
ggaattggct gagacccaga gagggacaag gacttgc当地 aatcatagag caattaaatg 148320  
gcagaatgaa gactggggcc tcagggtttc cccatctttt ccaccttcc cacttcattt 148380  
tccaccctag cggggagttt cacaggctt atggggttca ccattgaggc aggactttct 148440  
ggtgggctgg agaagctgca tcgctcaccc ggggctggg gtcactttt gatctattt 148500  
agtgcattgc taaggaactg attccagaag ccactgagaa atacttagga ggaacagacg 148560  
acactgtcaa aaagaaaagac ctgttctgg acttgatagc agatgtgtatg tttgggtgtcc 148620  
catctgtat tggcccccgg aaccacagag gtgagttccca gaggtcgaac gggagggaca 148680  
caaaccac gagcttctgt atctgaccctt cctacccctt agcatagaca gacatggaaa 148740  
cagctgaggg tcaggcctca aaggctgatt ccatatggca tggatgagg tgctgtctt 148800  
ttttggtttta tgccagcaga agactgttag aaaaaaaaaat ccagaggcaaa gttggttttt 148860  
taagggtatg atccctgatc acagcattttt ggaggtgggg aagttagagaa ggaaagagat 148920  
ggaatccat ccaagatgc当地 ttgtcaaggg agtattccact gtggacaact ggagcgggaa 148980  
aactcaagga aacaccaaga atacagggtt cagggcatc ccattctgttgc ggcacaggag 149040  
ccgggttattt attcaccaggc ttctacttgcatttgc当地 aggcttttgc当地 aaggaattgt 149100

tattccctgt tgacttcgac ctgctgcaca caagggcaga gtagtctttt gtgaccagac 149160  
aaaggcctca ggccctggagc tgcagatgt ggaggtggaa gtcaggctgg catgcccagg 149220  
aagaggggat ataggtgaga ccctggcagc atctgctgca agggctccat gcctggagtt 149280  
attgtggac atagggctgc tgttaggacaa atattgaaag atgagtctgt gaagggtttt 149340  
aaggctgag ccagctgcaa acaagttgt taagtattgg agctggataa aaagtggag 149400  
ccctgcatgg gatccagagg attgtccagg accaagaagg ccagagagag gagccaggc 149460  
gggtgtggga gaggtggctt gtagaatggc agtgtctgag ggtggttttt atgcatctca 149520  
gtcgctgcag tagcatgcaa gcacaggcga agggcagggc ctatgcagga cctgctacca 149580  
ctgaccctaa gctgtgtggg tggggcatga cgtagggat gtgtgtgctc acctagagag 149640  
gagtgtctgt tcctgcgtgc cagctagagg agattcacag gattcctttt atgcatctca 149700  
tcattcgct agtctgcaag ctaggaaatg tcctctctt aaccatgctg gaagggtttt 149760  
taaatttaga acttcataag catgataaaa actagctaact gcttaactag cagggtccct 149820  
gacacacccct tgcacaggaa gggcagggtg ctcataaccc tcatttcttc acagggtccct 149880  
gataaaaacc ttaaaccctg accactggag ttgaatctgt tctttcttaa acttgccttt 149940  
gccctatgtc ctgcgtctga actatata gatcccattt ctcattttc tgatggtttg 150000  
agcaatactg aaccttatgtt tttcatctgg tttccatgtc ctttaagttc agggctttt 150060  
ttttttttt ttttttgcc aggactacac agatttttact tacttcact tattgttgc 150120  
tcactctttt tgataaaaata acatttctga atataaaaatt aataatgttaa attatagaaa 150180  
ctttcaaaaa tatggaaaca caaaaagaag aaactatgtc tcacttcattt ccactacctg 150240  
gaggcaagtg ctataaaattt ttgtgtttt cgtctaaaga tttccatgt cctatatact 150300  
ttaaaaatca attttatatt ttactttgt tcatagaa-ctatgtgtg aggattttct 150360  
caatgttcat acaaactcat caaagcattt cttattccat gaaatggctg tgtaaatag 150420  
actttatattt tcataatctta ttagatgtt agcctggct ctcacatttct gatgtacaa 150480  
taacatttag ctcagcttaa tttctataag tctctaaaca catgtcttaat aattttctt 150540  
ggatttttt tagaagttaa taacttaggtt ggacaatgtca aatgttttag aacttggc 150600  
aaatattgtt aatttgcat ccaactgcata agaatgtgga tttttaattt ctctttetca 150660  
tttggatgc taagattaa aatttagcata acacttccag tttcataagc cttccccacc 150720  
aacaagaagc acatcagccct gtttaatct gcatgtccctc catgactagc cctctcatg 150780  
tctctgttcc tcttattatg tctaattgtc attacccaaa tctgtgcgtc actttccct 150840  
gaagacttgc gttgtgattt taagaattgt ataaatatac atggcttttag ccaaagagtt 150900  
ttacaaagta cgaaaaaggc agcatgtgc ctataataag ttctatcatt cacaaaagct 150960  
ctttcttcta tggttggttc tgagtttctt tggaaaatgt tcgaggggca aaggcaaggt 151020  
caaaccctcc ttttagcaag ttttgggttga ctttgaagca gccatttaac aggtggatta 151080  
cagagccaca gaaggatggc atcttccag gtgcgttcc tgctgagccg agggtgca 151140  
gcaggaggct gacaaaagatg agtgaataga ttattctca ttctcacatt gaaatgacat 151200  
gtgcgggtgg ggcatgaggt tagggatgctc tgagctccca ttgttaaattt ctttggatgc 151260  
cgaatttttta atgatgttaa gaaatgtatgg ctggaggcgg tggctcttgc caacactctc 151320  
agcattttgg gaggctgagg tgggaggattt atgagagcct aggatttcaa gatcagctg 151380  
ggcagcatag tgagaccctgt tctctacaaa acaattttaa aggaaagtga ttacagtgt 151440  
ctacaaaata ccataatataa tatcatcccc agttaaatac ataaaagaga gatatgtctaa 151500  
aataaaaaaaag aagcatctc tgagtggtag agttatgagt gatactttt atttggatgt 151560  
taaaatgtat tttaaattat tatagatgat gaaaaat tagaaggaaa tacaaaaaat 151620  
gcattggccct tgccctcaggat agtggattt tgagtgtat ctatgtttgc tttatgcgtt 151680  
tccatatttt tttttcttctt aatttattctt aattttttt attttccaaa ttcttactg 151740  
tacccaaagg ggaggacattt gtaaattttc tccaccagcc tggcatttgc ctgactctt 151800  
ccgtcttagt gtcacttctc agtgggtatc atgaccagtg caaagtgcgtc aggcacagg 151860  
ccaggcggcc cacgaggtag ccctgaagggg gcagcgatct gtggctccaa tgagccaaatc 151920  
attggaaaac tgcatcttc ctggggctgg gacaggagag ctttgggttgc gggagaggag 151980  
ggcagagccg aaggagagag ggcaggggag aggcaaggc acccttgctc agcgcctct 152040  
tttctctgccc agggctttac tgccttaaca ccctaaact cccaggccag gcaggcagca 152100  
agacacatgg ggacagttagt ctataaaagca gtgagtgccg caggttctgt agacacaaga 152160  
ggcagattgt tcctctctgt catatgtttt tattttaaaat gctctatgtt cagacaagca 152220  
acttggattt gcttcgtctc tctcaggatg ggtgagaaaa acactggaaa tgctcaaaac 152280  
gaggcagaac agaagacacc tgcattgggt gagatggcat ccaagtgaat gaacgcgag 152340  
ctgttatcaa tgaatttatat ccgggttaac cagatgtaga gagattgtct tgggtgagaa 152400  
tgcaccagca gccaaggggg tttacaggc agagtccagg tccctgcacc ggcagctgtt 152460  
ttaaatgaat tgacccaggg tttccacatt cattcattaa acatttgc acatcaactg 152520  
tatttgctc taattccgct tccacctcag acagctatgc agcccgagc atcactgt 152580  
gcttcctgt gactctgtttt ctctactgtc ctgacagcca gaggtttgtc gcagagctgg 152640  
agaccttggt agcctccagg tgggtgtctg gcaacatgaa ctgtgcattt atccttgc 152700  
tctcagatgc tggagcaccct acctacatgt atgagttca gtaccgtcca agcttctcat 152760  
cagacatgaa acccaagacg gtgataggag accacgggaa tgagcttcc tccgtctttg 152820  
gggccccatt tttaaaaggt aatgcttcattt cctgtctgtc agctaggagt tagagacttg 152880

ggttccagtc ttgggtgtggt ggccttcagc aattttgtcc tctcctggtc ttagtttcct 152940  
 gattctgtat aacagggttg aatgtcaactg ggttgcgc cggcttcctc ccactctaac 153000  
 acatgtgagg agggatgtgtt attcatgtgc cctctgcaca gacgctcaaga atctgttgt 153060  
 gtgacatcaa gacagggtggt ggtgggggtc tcctgcagga ttcactatga caggggttggaa 153120  
 tgtcaactggg ttgttccccg gtttcctccc gctctaacac acctgaggga ggatgtgtat 153180  
 catgtaccct ctgccacaga cactcagaat cctgggctgt gtcatcaaca agataggcgg 153240  
 tgggacacat gcggggccct gctctagggt gagaagccac caatcaattt ccctctccca 153300  
 ggagcgctga gacagtgggt gagggtgaga ttagaattgg tfttaaccct aagtcaaggc 153360  
 taatgtgtgc ctgtttgtct ttctgtctgt ctctaacaaa aactcataaa cctttacatt 153420  
 tagtacatt aataattgtt gattttagaaat tcacaggatg tatgaatttgg gaacaggaga 153480  
 agagaatatt ttttatatgg tttatagtc gcaagggtggc catcccacag gctgggaaagg 153540  
 tgcctctggc caagcccaga aacgggctca ttggaggagg ggttgggttag gagctttatg 153600  
 tgaacggatt ggctaaacat acatgttcaa caggttacag ggggagcaat ggatattcat 153660  
 gaagacagtc ctgacacatg tgtttaaac aaacatgtat gtaacatggc ccatgttcac 153720  
 ctgggtgtgg agacctaata tttaaatgtt ttacaatttgc ggcctgtaaag tccaaaggc 153780  
 ttctcaggac acgaagctca gcaagtgggg agcttctgtt caccggccag gtccagtc 153840  
 tggctgtgtt gtttttttttggagaaatg tactgaaatc agtcttctt gcaatcaaag 153900  
 cagtagttttaa gtctggcaag tcagggttctt gtttgc 153960  
 gtattgtttt tccttttgc tagctccagg ccagtgtgtttagttaa 154020  
 aagcacctcg tggcaagtgg aacaaatgtgg attttttttt ttttttataa ttataacttta 154080  
 agtttttaggg tacatgtgtca cattgtgtca gtttagttaca tatgtataca tttgtccgtgc 154140  
 tggctgctgc caccactaa ctctgtcatct agcatttaggt atatctccca gtgtctatccc 154200  
 tccccccctcc ccccaaaaaa ccacagtccc cagagtgtga tattttccctt cctgtgtcca 154260  
 tggatctca ttgttcaattt cccacatctt agtggaaataa tgccgtgtttt ggttttttgg 154320  
 tcttgcata gtttactggg aatgtatgggg tccaaatttca tccatgtccc taaaaggac 154380  
 atgaactcat cattttttat ggctgcataatg tattccacgg tttatgttgc ccacattttc 154440  
 ttaatccatgt ctatcattgt tggacatttgg gtttgc 154500  
 aatgcgcgcaaa taaacatacg tttgtcatgttgc tttttatagc aagtcttgc tattgtgaat 154560  
 gggtatatac ccagtaatgg gatggctggg tccaaatggta agcatgattt atagtcat 154620  
 aggaatcgcc acactgactt ccacaaatggt tgaacttagtt tacagtccca ccaacagtgt 154680  
 aaaagtgttc ctatttctcc acatcctctc cagcacctgt tttttcttga ctttttagag 154740  
 atgcaggccctt gaacccttgc ccgacgtggc ctttaggttctc gtttttaattt tgggtgttta 154800  
 ttgccacaaa gagggtgttc tggcagaatgg atgaccttca ttttatttgc gatgtggc 154860  
 cgggtgtgtc taaatccaaa aaggggaggaa gtattatggag gctgtgtca cctctgtcc 154920  
 gttcccagggc aggaacagag ttgaagggtt ttgcagggtc cccttagccc agagagggtc 154980  
 tggctcagtc gttgggggttgc tcaaggattttt attttttagtt tacattatac aatagttaa 155040  
 aaaatccctt cacgggtgtct tctaaatgttca aactcttcagc agttacagat cagatgggac 155100  
 tcacccttcatgt gtcgtcaga acgcaccaggc gcctctgggc atctctgtgt gcatgttttag 155160  
 ggccttcggc gctctgtgtt ttttcaaatgttca gtttgc ggttgc 155220  
 aaaaagccca agagagagca accctggaaa gtgggggtgc ttttttttttgc ttttttaggg 155280  
 gggcattttc ctgtgacccat gaggcggggag gaggcaggcg agggtcacaag gagacaaaagg 155340  
 cagccagccca atggaatgtac gcatggccat tgctgagccc taggtcagat atgtgaaag 155400  
 gtaaaatgtaca cacaatcca ccacgttcc ttttttttttgc agacctcagc tcagtttttttgc 155460  
 tggggcatgt gccaagacta ttttttttttgc agactcgcat gtgtatgtca cgctgc 155520  
 cacggaccac acttttttttgc acaaaggctt ttttttttttgc tccccacaga gggcctca 155580  
 gaagaggaga tcaagacttag caagatgggg atgaaatttct gggcaactt tgctcgcaat 155640  
 ggggtgaggctt ggtggcaaaag acagagccacg gctgggttggg gtttttttttgc gggcatgc 155700  
 atttttttttgc ggcagtttctt aagggttcttgc ttttttttttgc ttttttttttgc tgaccatagc 155760  
 actctgtatataa ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ctttttttttgc ttttttttttgc 155820  
 catctctggc ggttatacaatgttca ctttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 155880  
 gaagatttttttgc gggcaacacac acgacgttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 155940  
 acccccaatgg ggaaggggctg ccccaacttgc cagagtacaa ccagaaggaa gggatcttc 156000  
 agatttttttttgc caacacccat gggcccccaga agctgttttttgc ttttttttttgc ttttttttttgc 156060  
 ccaaccccttctt ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156120  
 gatgttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156180  
 agggatttgc ggttccaaatgttca ctttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156240  
 cagggggacac agggccatgttca gggcaatgttca ttttttttttgc ttttttttttgc ttttttttttgc 156300  
 aggttccaaatgttca ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156360  
 ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156420  
 ggccttcggc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156480  
 ctctggccctt gatgttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156540  
 gccagagtgc aggttccaaatgttca ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156600  
 ggttccaaatgttca ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc ttttttttttgc 156660

tggtacact 156780  
ctcccttgt 156840  
tcttcctcag 156900  
tctgttagta 156900  
cgattgtcc 156960  
ggttccctcg 157020  
gcttacttct 157080  
aattttattc 157140  
accatggacc 157200  
ggcccatttag 157260  
aggcatgagc 157320  
aatggccagg 157380  
aaggAACCTT 157440  
attatcggtc 157500  
gcaagaaatg 157560  
ggctgctacc 157620  
caaagcatgc 157680  
agtggaaaca 157740  
accagcacaa 157800  
caacaacaaa 157860  
actattcccc 157920  
gtacacacaa 157980  
tccacttct 158040  
aacattataa 158100  
atgcctgttag 158160  
tcaaggctgt 158220  
attatgtga 158280  
aatcaacaga 158340  
aataactata 158400  
atgagaaaaga 158460  
tgcccttaat 158520  
agacaggcca 158580  
acagggaaatc 158640  
cccagaaaaga 158700  
tttccaaaag 158760  
ggattcaaca 158820  
aaaatattga 158880  
atttttcact 158940  
aacgaaaaaaa 159000  
gaaaaatgtt 159060  
tatcaaaaag 159120  
tatcaaaaag 159180  
ctatattaa 159240  
cgtaagaata 159300  
cactttgtta 159360  
aatgtatatt 159420  
catgaataat 159480  
agcagacaga 159540  
attttaatcc 159600  
aaaatgattt 159660  
tttagtccaaa 159720  
tttgcccttc 159780  
ttgctggagg 159840  
cctcatacca 159900  
cggggggaag 159960  
gcaggggctcg 160020  
caggaccaag 160080  
tggatggact 160140  
ttgggtgaaca 160200  
ggtgactcgc 160260  
ttaggagttc 160320  
aaatttagctg 160380  
gagaatcgct 160440

ccagcctggg caacaagagt gaaacaccgt cataaaaagaa agaagaaaaga aagaaggaaa 160500  
gaaggaaaaga aagaaagaaa gagaaagaaa gaaagaagga aagaaggaga gataaagaaa 160560  
gaaggaagga aggaaggaag gaaggaaaga aagaaagaaa gaaagaaaga aagaaagaaa 160620  
gaaagaataa tagcagtaat agaaataact aaaactcact gcatagttat tatgtgttta 160680  
attataaaat acttttcata ttaactcaga gagtcac agaaactcta tgagcagttc 160740  
atgggtatc aacca 160755

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**